STEREO CASSETTE RECEIVER

KRC-444D/L

SERVICE MANUAL

KENWOOD

KENWOOD CORPORATION

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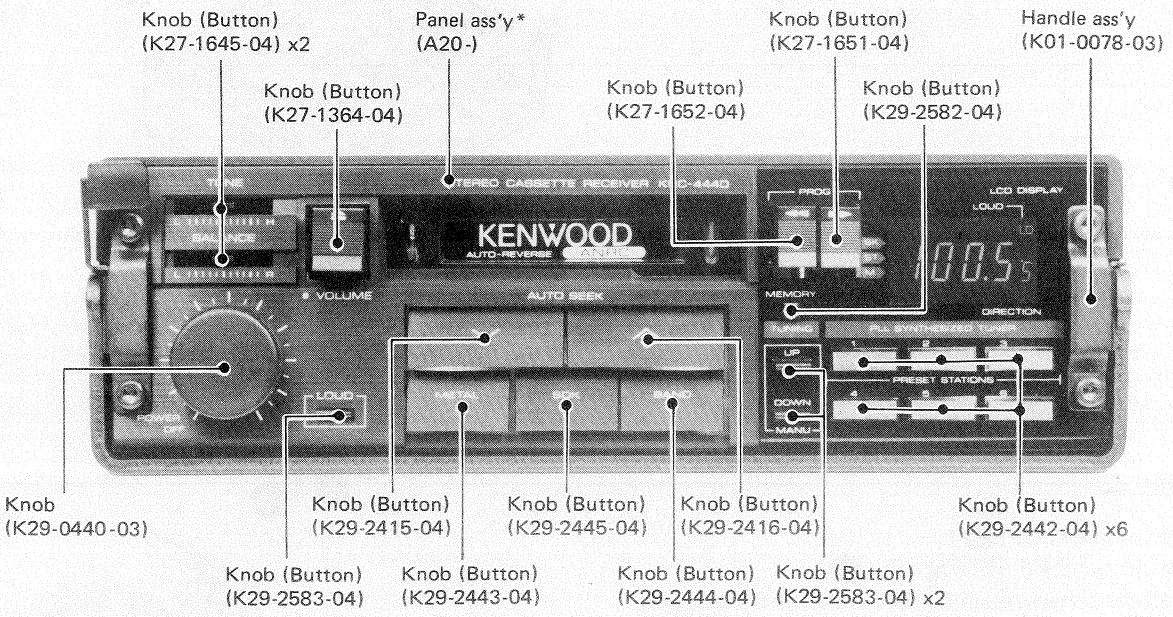
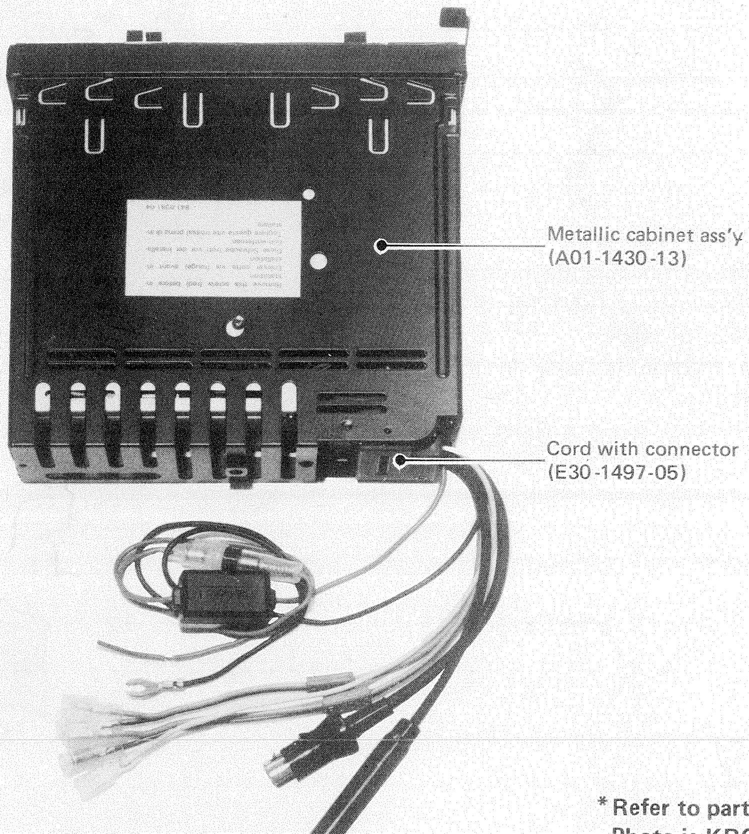
B51-3008-00 (O) 1068

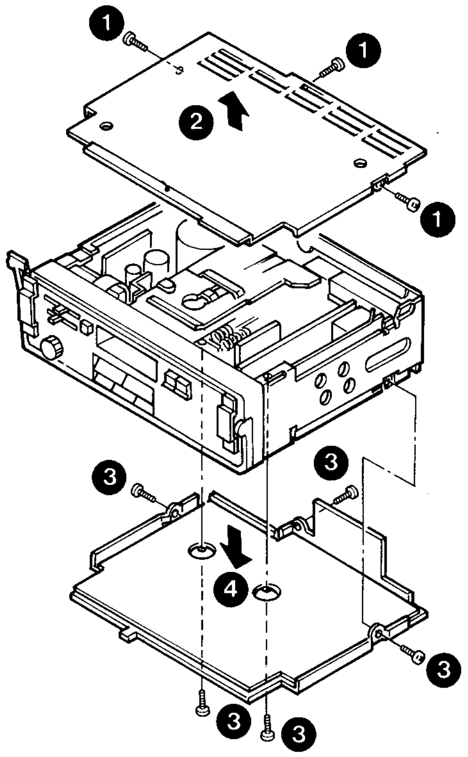

Knob (Button)
(K27-1645-04) x2
Panel ass'y*
(A20-)
Knob (Button)
(K27-1651-04)
Handle ass'y
(K01-0078-03)
Knob (Button)
(K27-1364-04)
Knob (Button)
(K27-1652-04)
Knob (Button)
(K29-2582-04)
TONE
BALANCE
VOLUME
STEREO CASSETTE RECEIVER KRC-444D
KENWOOD
AUTO-REVERSE
ANRC
PROG
LCD DISPLAY
LOUD
LD
005
MEMORY
DIRECTION
AUTO SEEK
TUNING
PLL SYNTHESIZED TUNER
UP
DOWN
MANU
PRESET STATIONS
METAL
DDK
BAND
LOUD
POWER OFF
Knob
(K29-0440-03)
Knob (Button)
(K29-2415-04)
Knob (Button)
(K29-2445-04)
Knob (Button)
(K29-2416-04)
Knob (Button)
(K29-2442-04) x6
Knob (Button)
(K29-2583-04)
Knob (Button)
(K29-2443-04)
Knob (Button)
(K29-2444-04)
Knob (Button)
(K29-2583-04) x2


Metallic cabinet ass'y
(A01-1430-13)
Cord with connector
(E30-1497-05)

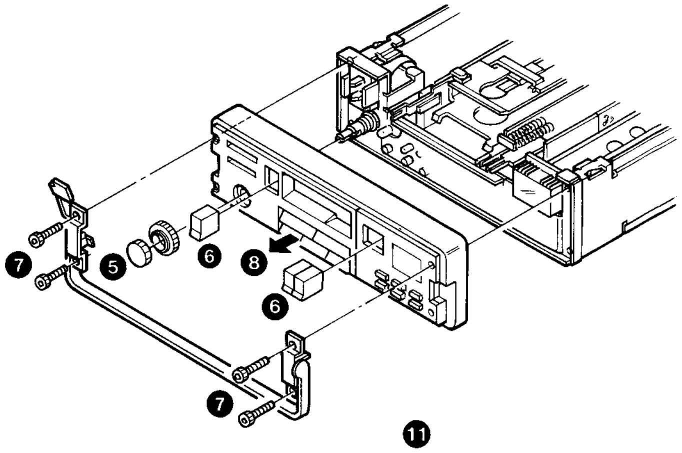
*** Refer to parts list on page 27.**
Photo is KRC-444D.

DISASSEMBLY FOR REPAIR

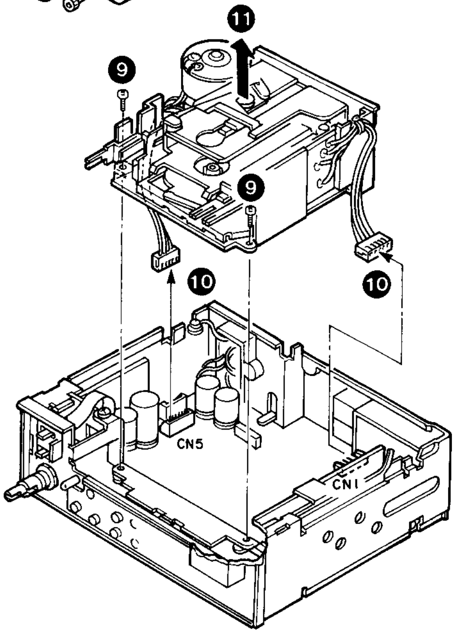
1. Remove three screws retaining the top cover (❶).
2. Remove the top cover in the directions of arrows (❷).
3. Remove five screws retaining the bottom cover (❸).
4. Remove the bottom cover in the directions of arrows (❹).



5. Remove volume knob (❺).
6. Remove eject and FF. REW. knob (❻).
7. Remove four screws retaining the handle with a hexagon wrench (❼).
8. Remove the front panel in the directions of arrows (❽).

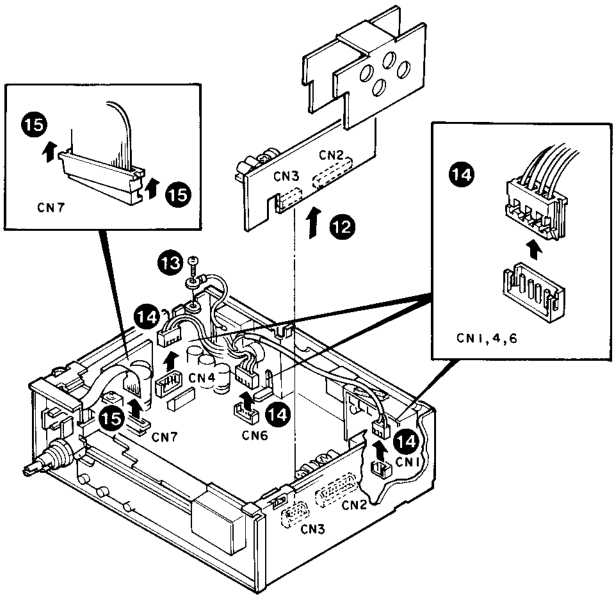


9. Remove two screws retaining the mechanism ass'y (❾).
10. Extract the connectors (CN1, 5) of the synthesizer unit (X14-1952-70) (❿).
11. Remove the mechanism ass'y in the directions of arrows (⓫).

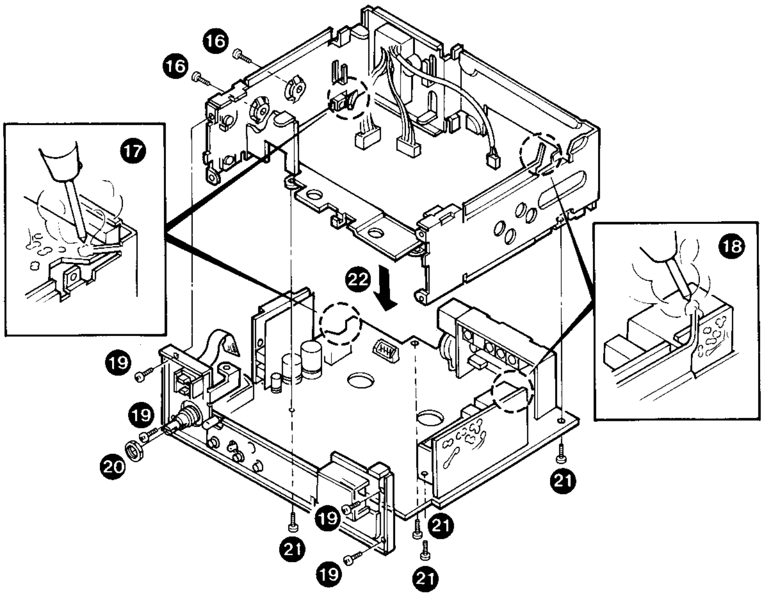


DISASSEMBLY FOR REPAIR

12. Extract the connectors (CN2, 3) of the S.D.K. unit (X13-5432-70), remove the synthesizer unit (X14-1952-70) in the directions of arrows (⑫).
13. Remove the grounding terminal of the synthesizer unit (X14-1952-70) (⑬).
14. Extract the connectors (CN1, 4, 6) of the synthesizer unit (X14-1952-70) (⑭).
15. Extract the flexible PC board from the connector (CN7) of the synthesizer unit (X14-1952-70) in the directions of arrows (⑮).

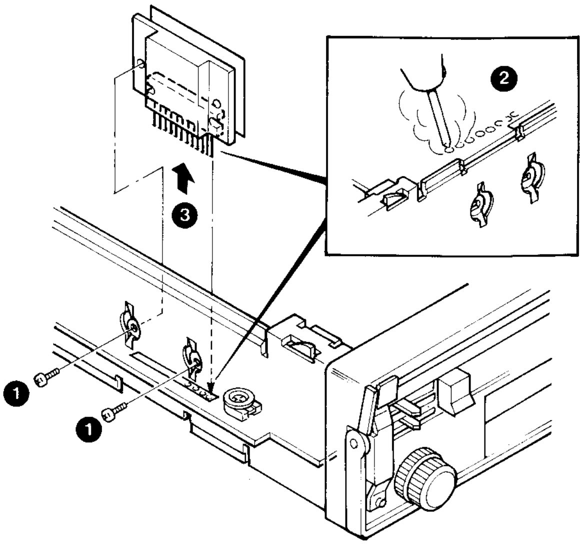


16. Remove two screws the shassis (⑯).
17. Resolder the synthesizer unit (X14-1952-70) foil side and shassis (⑰).
18. Resolder the tuner unit (X05-3182-70) and shassis (⑱).
19. Remove four screws retaining the front shassis (⑲).
20. Remove volume nut (⑳).
21. Remove four screws retaining the synthesizer unit (X14-1952-70) (㉑).
22. Extract the synthesizer unit (X14-1952-70) of the shassis in the directions of arrows (㉒).

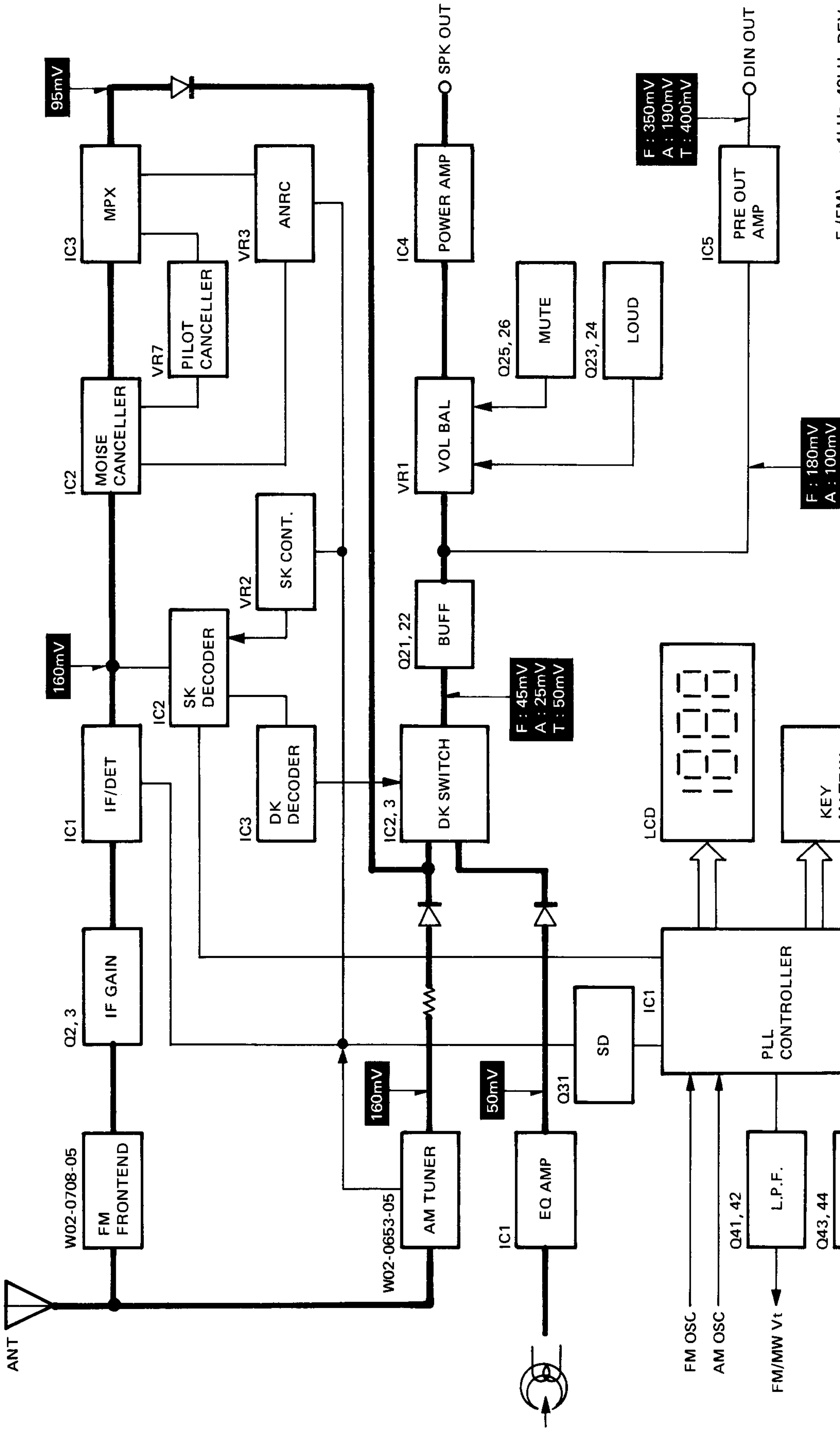


REMOVING THE POWER IC (X14-1952-70) (IC4)

1. Remove twe screws retaining the shassis (❶).
2. Remove IC4 from the synthesizer unit (X14-1952-70) foil side (❷).
3. Extract IC4 (X14-1952-70) in the directions of arrows (❸).



BLOCK LEVEL DIAGRAM


ANT
FM FRONTEND
W02-0708-05
IF GAIN
Q2, 3
IF/DET
IC1
160mV
MOISE CANCELLER
IC2
MPX
IC3
95mV
PILOT CANCELLER
VR7
ANRC
VR3
SK DECODER
IC2
SK CONT.
VR2
DK DECODER
IC3
AM TUNER
W02-0653-05
160mV
EQ AMP
IC1
50mV
SD
Q31
DK SWITCH
IC2, 3
F : 45mV
A : 25mV
T : 50mV
BUFF
Q21, 22
VOL BAL
VR1
MUTE
Q25, 26
LOUD
Q23, 24
POWER AMP
IC4
SPK OUT
F : 180mV
A : 100mV
T : 220mV
PRE OUT AMP
IC5
F : 350mV
A : 190mV
T : 400mV
DIN OUT
LCD
KEY MATRIX
PLL CONTROLLER
IC1
L.P.F.
Q41, 42
L.P.F.
Q43, 44
FM OSC
AM OSC
FM/MW Vt
LW Vt

F (FM) : 1kHz, 40kHz DEV.
A (AM) : 400Hz, 30% MOD.
T (TAPE) : MTT 212N

CIRCUIT DESCRIPTION

Description of Components

TUNER UNIT (X05-3182-70)

Component	Use/Function	Operation/condition/compatibility
IC1	FM IF Detection	
IC2	Noise Canceller	
IC3	MPX	
Q1	LOCAL/DX SW	
Q2,Q3	IF Gain	
Q5	ANRC Buff.	
Q6	CRSC Driver	

S.D.K. UNIT (X13-5432-70)

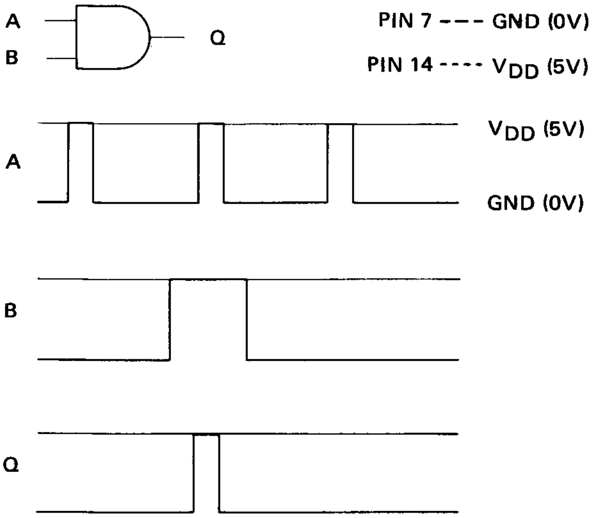
Component	Use/Function	Operation/condition/compatibility
IC1	TAPE EQ AMP	
IC2	SK DECORDER	
IC3	DK DECORDER	
Q1	METAL Select	OFF when METAL mode.
Q2	DK AMP	DK signal (125Hz) AMP.
Q3	DK AMP GAIN Select	ON when DK mode (Amp gain of Q2 turns high.) 17mV→50mV (TP1)
Q4	Buffer Inverter	ON when DK mode.
Q5	125Hz VCO STOP	ON when SDK mode. (VCO stops when SDK is OFF.)
Q6	Signal (TAPE/RADIO) Select	ON when TAPE mode. (OFF when a signal is interrupting.)
Q8	Signal (TAPE/RADIO) Select	ON when DK mode.

SYNTHESIZER UNIT (X14-2952-70)

Component	Use/Function	Operation/condition/compatibility
IC1	Controller	
IC2,IC3	DK SW	
IC4	POWER AMP	
IC5	PRE-OUT AMP	
Q1,Q2	9V AVR	
Q3	FM Power supply Select	ON when FM/SDK mode.
Q5	SDK Power supply Select	ON when SDK mode.
Q6,Q7	AM (MW/LW) Power supply Select	ON when AM (MW/LW) mode.
Q8,Q9	MW Power supply Select	ON when MW mode.
Q11,Q12	Mute Drive	ON when μ-processor Mute, Mech Mute mode.
Q13,Q14	TAPE Power supply select	ON when tape is loading.
Q15	5V AVR	
Q16	ACC OFF Mute Drive	OFF when Acc signal is down.
Q17,Q18	Microprocessor CE SW	ON when Power SW is ON (CE terminal turns Low to High.)
Q21,Q22	Buffer AMP	
Q23	LOUD SW	ON when LOUD SW is ON. (L ch)
Q24	LOUD SW	ON when LOUD SW is ON. (R ch)
Q25	Muting	ON when Muting. (L ch)
Q26	Muting	ON when Muting. (R ch)
Q27	VOL UP	OFF when VOL UP mode.
Q29	SK STOP	ON when SK IND lit on.
Q30	MONO SW	ON when MONO SW is ON.
Q31	SD (Station Detector)	ON when SEEK STOP mode.
Q35	BAND Select SW	ON when Micro-processor BAND 1 terminal is "H".
Q36	BAND Select SW	ON when Micro-processor BAND 2 terminal is "H".
Q37	Mute SW	OFF when Micro-processor Mute signal is output.
Q38	ST IND Prohibit Release	ON when SDK mode.
Q39	BAND Key Prohibit SW	ON when TAPE mode.
Q41,Q42	LPF (FM/MW)	
Q43,Q44	LPF (LW)	
Q45	LPF SW	ON when FM/MW mode. (OFF when LW mode.)
Q46	LPF SW	OFF when FM/MW mode. (ON when LW mode.)
Q47	LPF SW	ON when FM/MW mode. (OFF when LW mode.)
Q48,Q49	MONO Display Prohibit	ON when AM (MW/LW) mode.

CIRCUIT DESCRIPTION

AND-GATE For CPU Key Matrix Operation Description



CPU Key Matrix Operation

The source clock from the CPU is input to A-input via the AND-GATE at any time to apply the control signal to B-input.
When the signal is input to B-input, the output Q goes high and input as the CPU key input. When the B-input is low level, output Q is always low. Output Q is synchronized with input A.

Synthesizer Unit μ-Com: μPD 1708G

FUNCTION OUTLINE

Receiving frequency, Channel spacing, Reference frequency, Intermediate frequency

FM band

Frequency range	Channel spacing	Reference frequency	Intermediate frequency
87.50~108.0 MHz	* 50 kHz	12.5 kHz	10,700

* MANUAL 25 kHz

AM band

Frequency range	Channel spacing	Reference frequency	Intermediate frequency
522~1611 kHz	9 kHz	9 kHz	450 kHz
153~281 kHz	* 9 kHz	1 kHz	450 kHz

* MANUAL 1 kHz

Tuning Function

(1) Auto Tuning (Sawtooth wave mode)
Seek Up: Once a station is tuned, it is held tuned.

(2) Manual Tuning (Sawtooth wave mode)
Manual Up/Down: Frequency is advanced up or down in steps by pressing the push switch.
Pressing for a half second or more advances it up or down continuously until the switch is released.

(3) Preset Memory Recall
6 stations on each FM, MW, and LW band can be preset independently with the 6 buttons. The last station is stored in memory for each band when power is turned off.

Tape Function

(1) Tape running indicator
(2) METAL control

Radio Function

(1) MONO control

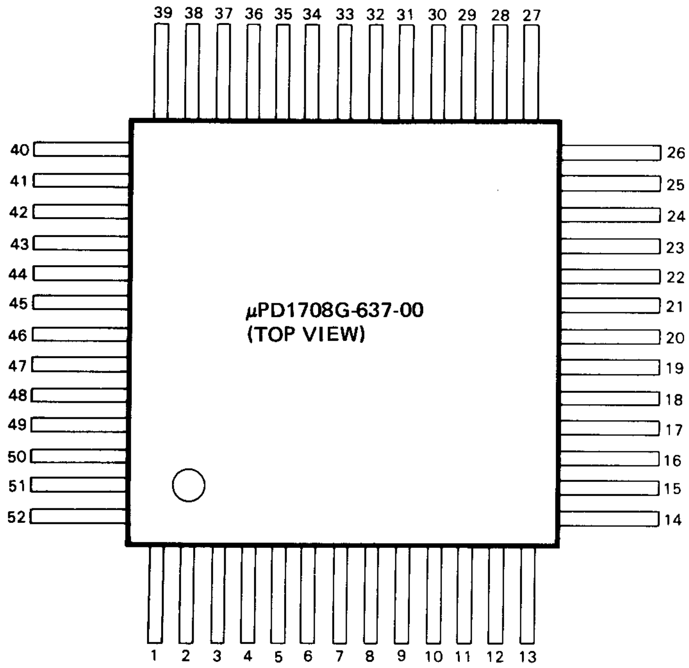
Other Functions

(1) LOUDNESS control

CIRCUIT DESCRIPTION

TERMINAL DESCRIPTION

Terminal Configuration (Top View)


39 38 37 36 35 34 33 32 31 30 29 28 27
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23
22
21
20
19
18
17
16
15
14
μPD1708G-637-00
(TOP VIEW)
1 2 3 4 5 6 7 8 9 10 11 12 13

Pin No.	Pin Name	Pin No.	Pin Name
1	LCD4	27	KS_1 (PB_1)
2	LCD3	28	KS_0 (PB_0)
3	LCD2	29	BANDZ/N.R
4	LCD1	30	METAL-LOC
5	COM2	31	LOUDNESS
6	COM1	32	*
7	V_{DD}	33	*
8	FM	34	*
9	AM	35	*
10	GND	36	*
11	EO_1	37	*
12	EO_2	38	LCD19
13	CE	39	LCD18
14	*	40	LCD17
15	XI	41	LCD16
16	XO	42	LCD15
17	AF MUTE (PA_3)	43	LCD14
18	BAND 1 (PA_2)	44	LCD13
19	KS_5/K_5 (PA_1)	45	LCD12
20	KS_4/K_4 (PA_1)	46	LCD11
21	K_3	47	LCD10
22	K_2	48	LCD9
23	K_1	49	LCD8
24	K_0	50	LCD7
25	KS_3 (PB_3)	51	LCD6
26	KS_2 (PB_2)	52	LCD5

* Not used.

CIRCUIT DESCRIPTION

Pin description

Pin No.	Symbol	Pin Name	Description
1~4 34~52	LCD1 ≀ LCD23	LCD segment signal	LCD segment signal output pin (1/2 duty, 1/2 bias LCD should be used. Frame frequency: 100 Hz, Drive voltage: VDD)
5 6	COM2 COM1	LCD common signal	LCD common signal output pin
7 33	V_{DD}	Power input	Device power supply pins During device operation, 5 V ±10% voltage is supplied via these pins. Either of them can be used for supplying the power individually. The rising time of VDD should be less than 500 ms (0 to 4.5 V). When the rising time is too long, or when the VDD is not lowered completely to 0 V and then raised to 4.5 V from the voltage lower than the operating rate, the diode switch condition for initialization is not read out correctly. In such cases, use the CE pin so that the diode switch status can be read out for initialization.
8	FM	FM VCO input	This pin inputs the FM station output signal. Since it incorporates the AC amp, cut the DC signal with the capacitor.
9	AM	AM VCO input	This pin inputs the AM station output signal. Since it incorporates the AC amp, cut the DC signal with the capacitor.
10	GND	Ground	Connect to the ground terminal of the set.
11	EO_1	Error Out	Charge pump output of the phase detector consisting of PLL. When the frequency divided by the oscillating frequency is higher than the reference frequency, these pins output high level signals, and when it is lower than the reference frequency, they go low. When the frequency (divided by the oscillating frequency) is coincided with the reference frequency, it enters into the floating status.
13	CE	Chip Enable	This pin is used to input the selected signal from the device. When operating the PLL section, this pin goes high, and when the PLL section is stopped, it goes low. When at low level, the display goes off. However, a low level signal below 134 μs or high level signal is not accepted.
15 16	XI XO	Crystal resonator	Connectors of the crystal resonator. Connect the 4.5 MHz crystal resonator.
17	AF MUTE	Mute Out	This pin outputs the muting signal to eliminate shock noise when the PLL is unlocked and pop noise when switching between Tape and Radio, and is active low. (CMOS output) For timing details, refer to the AF Mute Out Timing Chart. When the CE pin is low, this pin is active low.
18	$BAND_1$	Band Out	FM/MW switching output pin FM: High MW: Low When the MODE switch is set to "1" (Tape mode), this pin is low. When the SDK is provided, follow the SDK section.
19	KS_5/K_5	Key return signal source and Key return signal input	This becomes the source of key return signal to read out the diode matrix for initialization only when the power is turned on for the first time (rising time of VDD) or when the set is returned from the back-up condition (CE: Low to High). Then, this inputs the key return signal for the key matrix. Insert the pull-down resistor. (CMOS input /output)
20	KS_4/K_4	Key return signal source and Key return signal input	This becomes the source of the key return signal to read out the diode matrix for initialization only when the power is turned on for the first time (VDD rising time) or when returning from the back-up condition (CE goes high from low). Then, this inputs the key return signal for the key matrix. Insert the pull-down resistor. (CMOS input /output)
21 24	K_3 ≀ K_0	Key return signal input	This pin inputs the key return signal for the key matrix. Insert the pull-down resistor. (CMOS input)
25 28	KS_3 ≀ KS_0	Key return signal source	This pin outputs the key return signal for the key matrix. Since the synchronous current is greatly lowered because of its configuration, the reverse-current prevention diode will be not necessary for the key source side. (CMOS output)
30	METAL/DX/LOC	LOC Out	In radio mode: DX/Local On/Off output pin When "LOC" is displayed on the LCD panel, high level signal is output. When it is not lit, low level signal is output. (When the power is turned on, low level status is initialized.) In tape mode: METAL On/Off output pin When "METAL" is displayed on the LCD panel, low level signal is output. When it is not lit, high level signal is output. On initialization when the tape power is turned on, high level is output.

CIRCUIT DESCRIPTION

Pin No.	Symbol	Pin Name	Description
31	LOUDNESS	Loudness Out	LOUDNESS output pin When "LOUD" is displayed on the LCD panel, low level signal is output. When it is not lit, high level signal is output. When the power is turned on first (VDD rising time), low level signal is output. (CMOS output)
32			DOLBY output pin When "DOLBY" is displayed on the LCD panel, high level signal is output. When it is not lit, low level signal is output. On initialization when the power is turned on, low level is output.

BAND2/NR

When Band A is "0" or "1" and the NR selector is "1", this functions as the NR on/off output pin. When "NR" is displayed on the LCD panel, high level signal is output.
When it is not lit, low level signal is output.
This pin can be operated in the TAPE/RADIO mode.
On initialization when the power is turned on, this pin is at low level.
When BAND A is "0", "1" and the NR selector is "0", this function as the WIDE-ADV on/off output pin.

- **In the Radio mode:**
  This functions as the WIDE on/off output pin.
  When "WIDE" is displayed on the LCD panel, high level signal is output, and when it is not lit, low level is output.
- **In the Tape mode:**
  This functions as the ADV on/off output pin.
  When "ADV" is displayed on the LCD panel, high level signal is output, while it is not lit, low level is output.
  On initialization when the power is turned on first, it is at low level.

When BAND A is "0" and the NR selector is "0" (SDK operation is normal only when in this status), and BAND B is "1", this pin functions as the BAND 2 output. BAND 2 becomes the band switching output port in combination with BAND 1.

Output / Mode	BAND 1	BAND 2
MW	L	L
FM	H	L
LW	L	H
SDK	H	H

CIRCUIT DESCRIPTION

1. KEY MATRIX CONFIGURATION

1-1. Key Matrix Layout

Input pin / Output pin	K_5 (19)	K_4 (20)	K_3 (21)	K_2 (22)	K_1 (23)	K_0 (24)
KS_0 (28)	SEEK DOWN	SEEK UP		LOUDNESS	MTL	MONO
KS_1 (27)	MD	MU	M4	M3	M2	M1
KS_2 (26)	ME	SDK	M6	M5		BAND
KS_3 (25)		SK	MODE	SD	ST	FOW/REV
KS_4 (20)			CLK/FRQ	NR SEL	BAND B	▧
KS_5 (19)			BAND A	PRIORITY	BAND C	CLKSEL

The number in the bracket shows the pin no.

▢ : Momentary switch

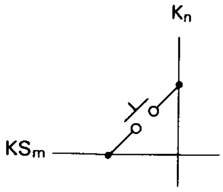
▧ : Diode matrix (closed/opened by diode)

▨ : Alternate switch or transistor switch

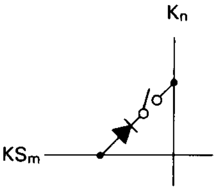
☐ : Open

1-2. Switch Connection

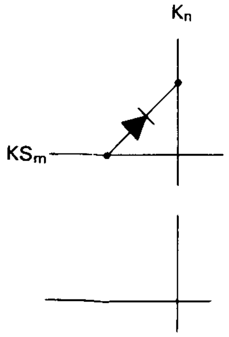
Momentary switch



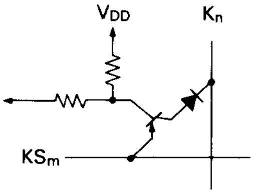
Alternate switch



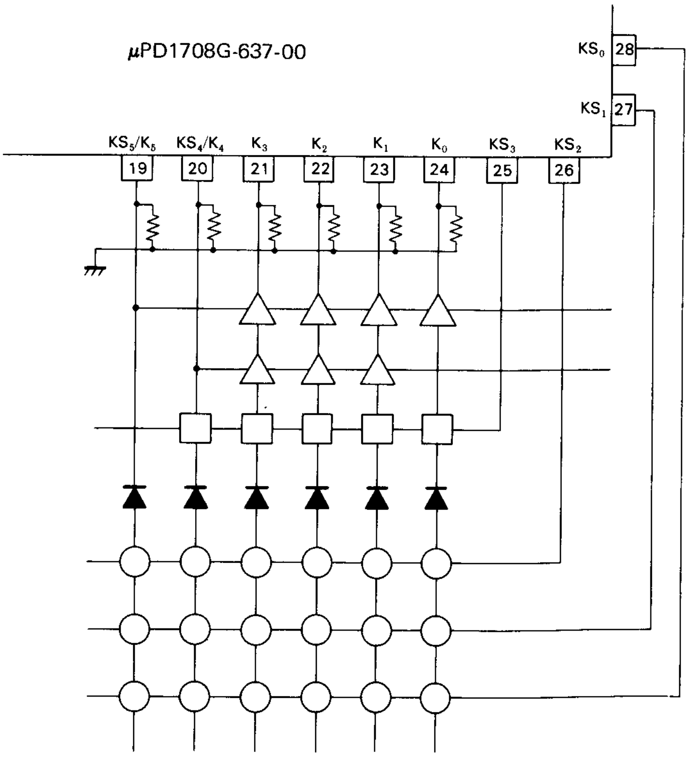
Diode matrix or open



Transistor switch



1-3. Key Matrix Connection


μPD1708G-637-00
KS_0 28
KS_1 27
KS_5/K_5 19
KS_4/K_4 20
K_3 21
K_2 22
K_1 23
K_0 24
KS_3 25
KS_2 26

○ : Momentary switch

□ : Alternate switch or transistor switch

△ : Diode matrix

CIRCUIT DESCRIPTION

2. KEY MATRIX DESCRIPTION

2-1. Diode Matrix for Initialization

The diode matrix for initialization has the following five status. All status is read out only when the power is supplied to the V_{DD} for the first time (Power-ON, Reset) and when the CE pin goes high from low level (CE Reset), in another periods, the diode matrix status is ignored.

(1) The switch for setting the receiving frequency range and the channel spacing:
BAND A
(2) Clock signal select switch:
CLKSEL
(3) Priority select switch for display:
PRIORITY
(4) —
(5) NR select switch:
NR SEL
(6) CLOCK/FREQUENCY select switch:
CLOCK/FRQ
(7) LW select switch:
BAND B

<table>
<tr><th>Symbol</th><th>Function Description</th></tr>
<tr><td>BAND A</td><td>This switch is used for setting the receiving frequency range for each FM/MW/LW band channel spacing. Each setting status is as follows:
<table>
<tr><th>BAND A</th><th>Frequency Range</th><th>Channel Spacing</th><th>Manual Step</th></tr>
<tr><td>1</td><td>87.9~107.9 MHz</td><td>200 kHz</td><td>–</td></tr>
<tr><td>1</td><td>530~1620 kHz</td><td>10 kHz</td><td>–</td></tr>
<tr><td>0</td><td>87.5~108.0 MHz</td><td>50 kHz</td><td>25 kHz</td></tr>
<tr><td>0</td><td>522~1611 kHz</td><td>9 kHz</td><td>–</td></tr>
</table></td></tr>
<tr><td>PRIORITY</td><td>When the clock function is provided, this switch selects the priority mode for display.
When the display which does not have priority is recalled, the mode having priority will be displayed after approx. 5 seconds.
"1": No priority
"0": Priority is provided.</td></tr>
<tr><td>CLKSEL</td><td>Select switch to provide the clock function or not.
"1": Clock is not provided (For back-up, RAM is not cleared)
"0": Clock is provided.</td></tr>
<tr><td>NR SEL</td><td>Select switch to provide the NR (noise reduction) function.
"0": NR is not provided (WIDE-ADV and BAND 2 output pin)
"1": NR provided</td></tr>
<tr><td>CLOCK/FRQ</td><td>Select switch to provide priority to the clock or frequency for display (Depending on PRIORITY)
"0": Frequency
"1": Clock</td></tr>
<tr><td>BAND C</td><td>Switch to access the preset memory (M1 to M6) sequentially
"0": M1 to M6 keys are preset independently
"1": Each time the M1 key is pressed, preset memory is sent sequentially
$\to M_1 \dashrightarrow M_6$</td></tr>
</table>

CIRCUIT DESCRIPTION

2-2. Mode Select Switches

Unlike the initializing switches, these switches can be changed at any times. (On the following table, "1" shows switched ON, "0" shows switched OFF.)

Symbol	Function Description
MODE	Set the unit to RADIO mode or TAPE mode. "1": TAPE mode "0": RADIO mode
SD	In the RADIO mode: This is the Station Detector input in SEEK or SCAN mode. This should be set to OFF within approx. 50 ms after the PLL is locked. When every times are OFF by detecting the station every 1 ms, the station is recognized as received and the seeking or scanning operation stops.
STEREO	In the RADIO mode: (Only for FM reception) Stereo signal input switch. When this switch turns OFF, "ST" is displayed on the LCD panel. However, "ST" goes off in the Auto Tuning mode (AF-MUTE pin is active) even if this switch is OFF.
FOW/REV	In the Tape mode: Tape running direction indicator input switch. When this switch turns ON, the "REV" (◀) is displayed on the LCD panel. When it turns OFF, the "FOW" (▶) is displayed. This switch functions only when the CE pin is high and the MODE switch is "ON" (Tape mode).

2-3. Momentary Switches

Symbol	Function Description
MU MD	These keys are used for manual tuning and time adjustment. ● Frequency display Each time the key is pressed, the displayed frequency is advanced up (by MU key) or down (by MD key) by 1 step (channel spacing set). When it is pressed for a half second or more, the frequency is advanced rapidly (continuously) until it is released. ● Clock (time) display While pressing the ME key, press the MD key to adjust the time, and press the MU key to adjust minutes.
M1 ∫ M6	In the Radio mode: These keys are used to write or recall the preset memory. FM, MW and LW bands can be stored independently into each key in memory. (1) When writing With the frequency display, within five seconds after pressing the ME key, press one key (M1 to M6), to store the frequency currently received into memory. (2) When recalling When one key (M1 to M6) is pressed, the memory content (frequency) corresponding to the key pressed is recalled. When the radio is turned on after the VDD is first turned on, the lowest frequency on the FM band is recalled. When shipped, the following frequencies are preset into M1 to M6 key for adjustment at the factory.

Band	Frequency Range \ Preset Memory Key	M1	M2	M3	M4	M5	M6
FM	87.9~107.9 MHz	87.9	90.1	98.1	106.1	107.9	87.9
	87.50~108.00 MHz	87.50	90.1	98.1	106.1	108.00	87.50
MW	530~1620 kHz	530	600	1000	1400	1620	530
	522~1611 kHz	522	603	999	1404	1611	522

CIRCUIT DESCRIPTION

Symbol	Function Description
RCAL	Display select key. Available only when in the radio mode. When this key is pressed, the display is changed from the clock display to frequency or vice versa. However, five seconds after the key is pressed, the display is restored to the priority mode (depending on the diode matrix PRIORITY). When the clock is not provided (CLKSEL=0), this key has no effect. However, the clock display is resumed by the PRIORITY switch when the display priority is provided. a) ON: Priority is provided b) OFF: No priority
N.R	(1) NR key (RADIO/TAPE common key) (2) WIDE-ADV key (Independent RADIO/TAPE key) (1) NR key: BAND A: "0", "1" NR SEL: "1" With the above status, this key is used as the NR select key. Each time the key is pressed, the BAND2/NR output pin and "NR" display on the LCD panel are inverted. When "NR" is displayed on the LCD panel, the BAND2/NR pin outputs the high level, and when the display is not lit, low level is output. (By initialization when the power is turned on, it outputs low level.) (2) WIDE-ADV key: BAND A: "0", "1" NR SEL: "1" With the above status, this key is used as the WIDE-ADV select key. In the Radio mode: Used as the WIDE select key. Each time the key is pressed, the BAND2/ADV output pin and the "WIDE" display on the LCD panel are inverted. When the "WIDE" is displayed on the LCD panel, the BAND2/ADV pin outputs the high level, and when the display is not lit, low level is output. On Tape mode: Used as the ADV select key. Each time the key is pressed, the BAND2/NR output pin and the "ADV" display on the LCD panel are inverted. When the "ADV" is displayed on the LCD panel, the BAND2/NR pin outputs the high level. When the display is not lit, the low level is output. (By initialization when the power is turned on, low level is output.) Note: When the following status is selected in the diode matrix, the NR key and the WIDE-ADV key are not effective. NR SEL: "0" BAND A: "0" BAND B: "1"
M5 BAND	This key is used for setting the received frequency range for FM/MW/LW band and the channel spacing. 1. By initialization when the power is turned on, the receiving frequency and channel spacing are registered by the diode of BAND A. Then, when the CE pin goes "L"→"H" or vice versa, they follow the diode of BAND A. 2. When the CE pin is inverted to high from low while pressing the M5 key and the BAND key together, the band setting of BAND A is changed from "1" to "0" or from "0" to "1" Then, when the CE pin is inverted to "L"→"H" or vice versa, the changed area setting is maintained. 3. When the CE pin is inverted from low to high while pressing the M5 key and BAND key together, the band setting follows the diode of BAND A. Then, when the CE pin is inverted from "L"→"H" or vice versa, it follows the diode of BAND A, too. 4. To change the setting by the M5 key and the BAND key, repeat procedure 2 and 3. Note: On initialization when the power is turned on, the M5 key and the BAND key are ignored even when they are pressed, and the setting is followed to the diode.

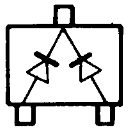
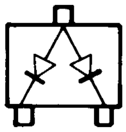
CIRCUIT DESCRIPTION

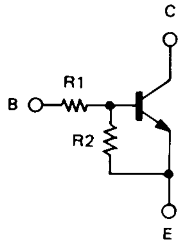
Symbol	Function Description
M1 ~ M6	These keys are used to write and recall the preset memory. Each FM, MW and LW frequency can be stored into one key in memory independently. However, the number of available bands differ with the area designated by the initializing diode matrix, as follows: For the area only 2 bands are available: 6 stations × 2 = 12 stations For the area 3 bands are available: 6 stations × 3 = 18 stations Corresponding to the preset key pressed, the "CH" indicator and " " (channel number) are displayed on the LCD panel.
SEEK UP/DOWN	These keys are used for automatic tuning. During auto tuning operation, when the SD switch is turned OFF, the frequency displayed at the time is kept on hold. In auto tuning mode, the auto tuning operation is continued even when the LOUDNESS, ME, NR, METAL-DX/LOC, or MONO-DOLBY key is pressed. When one of the other keys is pressed, the auto tuning operation is stopped, and the unit enters the operation of the key pressed. When the SEEK key is pressed again, the frequency before the SEEK operation is resumed.
DX/LOC —MTL	This key is used to select the function between DX/LOC — MTL. ● In the Radio mode: Each time the key is pressed, the LOC output pin and the "LOC" display on the LCD panel are inverted. When the "LOC" display on the LCD panel, high level signal is output from the LOC Out pin, and when it is not lit, low level is output. ● In the Tape mode: Each time the key is pressed, the LOC output pin and the "MTL" display are inverted. When the "MTL" is displayed on the LCD panel, low level signal is output from the LCD Out pin, and when it is not lit, high level is output. By initialization when the power is turned on, high level signal is output.
ME	This key is used for writing the preset memory. It is also used for adjusting the time on clock display. ● Frequency display: Used when writing a new frequency into the preset memory. When this key is pressed, the "ME" is displayed on the LCD panel, and lit for five seconds after the key is released. While the "ME" is lit, pressing one key (M1 to M6) stores the displayed frequency into memory corresponding to the key pressed. To cancel the preset memory, while the "ME" is lit, press any key other than ME, NE, METAL-DX/LOC, MONO-DOLBY, or LOUDNESS. ● Clock display: The "hour" and "minutes" can be adjusted by pressing the MD or MU key while pressing the ME key. After pressing the ME key, each time the MD key is pressed, the "hour" is advanced one by one. Pressing it for a half second or more advances the time by 4 hours/sec continuously until the MD key is released. This operation does not affect the "minute" or "second" digits (they are not displayed during this operation). After pressing the ME key, each time the MU key is pressed, the "minute" is advanced one by one. Press it for a half second or more advances the minute in 8 minutes/sec speeds continuously, until the MU key is released. The "second" is not displayed, however, it is reset to zero every time the "minute" is set. The "minute" adjusting does not affect the "hour". ("Hour" is not changed even when the "minute" exceeds 60.) (During clock display, pressing the ME key alone changes the display to frequency and "ME" is displayed. In this condition, pressing one of the preset keys (M1 to M6) stores the frequency into the memory corresponding to the key pressed.)
BAND	This key is used to select the band. When Band A is "0" or "1" and Band B is "0" (LW: Not available) . . . Each time this key is pressed, the band is changed in the order of FM — MW — FM . . .
LOUDNESS	Used for Loudness select key. Each time this key is pressed, the loudness output pin and the "LOUD" display on the LCD panel are inverted. When the "LOUD" is displayed on the LCD panel, low level signal is output from the Loudness pin and when it is not lit, high level is output. By initialization when the power is first turned on (rising time of VDD), "LOUD" is displayed and low level is output.

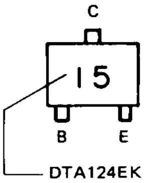
CLASSIFICATION OF CHIP PARTS

Digital transistor/デジトラ	Symbol/記号	R1	R2
DTA/DTC114EK	14/24	10k	10k
DTA/DTC114YK	54/64	10k	47k
DTA/DTC114TK	94/04	10k	–
DTA/DTC124EK	15/25	22k	22k
DTA/DTC124XK	35/45	22k	47k
DTA/DTC143EK	13/23	4.7k	4.7k
DTA/DTC143TK	93/03	4.7k	–
DTA/DTC144EK	16/26	47k	47k
DTA/DTC144WK	76/86	47k	22k
DTA/DTC143XK	33/43	4.7k	10k

Transistor/トランジスタ	Symbol/記号
2SA1036K	H☐
2SA1037K	F☐
2SC2411K	C☐
2SC2412K	B☐
2SC2413K	A☐
2SC2059K	J☐
2SC3082K	S☐
2SB852K	U☐
2SD1383K	W☐
2SD1757K	AA☐
2SD1328	ID☐
2SC2412LN	L☐

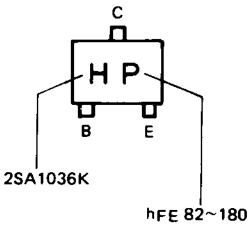
Diode/ダイオード
DAN202K Silver/シルバ

DAP202K Green/グリーン






hFE

M : 39~ 82
N : 56~ 120
P : 82~ 180
Q : 120~ 270
R : 180~ 390
S : 270~ 560
E : 390~ 820
U : 560~1200
A : 1000~
B : 5000~



ADJUSTMENT

Set the controls and switches as follows.

BALANCE :center position LOUD :OFF ATT :OFF
FADER :center position T・ADV :OFF AUTO :OFF
BASS :center position METAL :OFF
TREBLE :center position DOLBY NR :OFF

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION							
1	DISCRIMINATOR	(A) 98.1MHz 0 dev 60dB(ANT input)	Connect a DC voltmeter to TP1. (X05-318)	FM 98.1MHz	T1 (X05-318)	0V	(a)
2	SEEK STOP LEVEL	(A) 98.1MHz 1kHz,±40kHz dev 20dB(ANT input)	–	FM SEEK: ON 98.1MHz	VR2 (X05-318)	STOP	
3	ANRC	(C) 98.1MHz 1kHz,±40kHz dev Selector:L or R Pilot:6kHz dev 60dB(ANT input)	(B)	FM 98.1MHz	VR3 (X05-318)	Maximum separation. Best point	
4	IF GAIN	(C) 98.1MHz 1kHz,±40kHz dev Pilot:±6kHz dev 30dB(ANT input)	(B)	FM 98.1MHz	VR1 (X05-318)	Separation 10dB	
5	SOFT MUTE LEVEL	(A) 98.1MHz 1kHz,±40kHz dev 60dB→No input	(B)	FM 98.1MHz	VR5 (X05-318)	Output Noise level -25dB (When not add any signal to ANT terminal)	
6	SEPARATION	(C) 98.1MHz 1kHz,±40kHz dev Selector:L or R Pilot:±6kHz dev 60dB(ANT input)	(B)	FM 98.1MHz	VR6 (X05-318)	Minimum crosstalk. A compromise adjustment may be required if left-to-right and right-to-left separations are unequal.	
7	PILOT CANCELLER	(C) 98.1MHz 0 dev Pilot:±6kHz dev 60dB(ANT input)	(B)	FM 98.1MHz	VR7 (X05-318)	Minimum output	
8	DK SENSITIVITY	(E) 98.1MHz 1kHz,±40kHz dev SK,5.33% mod DK,30% mod 60dB(ANT input)	Connect an AC voltmeter to TP1 (X13-543)	98.1MHz SDK: OFF	VR1 (X13-543)	17mV AC	(b)

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
SDK SECTION							
(1)	DK VCO	DK SW OFF BK SW OFF	Connect a frequency counter to TP3. (X13-543)	FM 98.1MHz SDK:ON	VR2 (X13-543)	125Hz	(c)
(2)	SK LAMP	(E) 98.1MHz 1kHz, SK SW ON BK SW ON 20dB(ANT input)	(B)	FM 98.1MHz	VR3 (X14-195)	Adjust so that the SK LAMP just lights.	
(3)	DK LEVEL	(E) 98.1MHz 1kHz,±40kHz dev SK,5.33% mod DK,30% BK,60%mod 60dB(ANT input)	(B)	FM 98.1MHz VOLUME:0 SDK:ON	VR2 (X14-195)	400mV	
AM SECTION							
< 1 >	STOP LEVEL	(D) 999kHz 400Hz,30% mod 35dB(ANT input)	–	AM AUTO:ON 990kHz	VR4 (X14-195)	STOP	
CASSETTE DECK SECTION							
[1]	AZIMUTH	MTT-216 (10kHz)	(B)	TAPE PLAY	Head Azimuth Screw	Adjust so that the output levels of the forward and reverse left and right channels are all maximum and identical.	(d)

REGLAGE

Règler les controles et les boutons comme suit.
BALANCE :position centre LOUD :OFF ATT :OFF
FDER :position centre T・ADV :OFF AUOT :OFF
BASS :position centre METAL :OFF
TREBLE :position centre DOLBY NR :OFF

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER (AMPLI-TUNER)	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF							
1	DISCRIMINATEUR	(A) 98.1MHz 0dév 60dB(Entrée ANT)	Connecter un voltmètre CC entre à TP1. (X05-318)	FM 98.1MHz	T1 (X05-318)	0V	(a)
2	NIVEAU DE CHERCHER D'ARRET	(A) 98.1MHz 1kHz.±40kHz dév 20dB(Entrée ANT)	–	FM CHERCHER: ON 98.1kHz	VR2 (X05-318)	ARRET	
3	ANRC	(C) 98.1MHz 1kHz.±40kHz dév Selecteur: L ou R Pilote:±6kHz dév 60dB(Entrée ANT)	(B)	FM 98.1MHz	VR3 (X05-318)	Séparation maximale. Punkt meilleur	
4	GAIN FI	(C) 98.1MHz 1kHz.±40dB dév Pilote:±kHz dév 30dB(Entrée ANT)	(B)	FM 98.1MHz	VR1 (X05-318)	Séparation 10dB	
5	NIVEAU DE SOFT MUTE	(A) 98.1MHz 1kHz.±40kHz dév 60dB→Entrée No	(B)	FM 98.1MHz	VR5 (X05-318)	Bruit de niveau de sortie -25dB (Sous non correspondance d'antenne.)	
6	SEPARATION	(C) 98.1MHz 1kHz.±40kHz dév Selecteur:G ou D Pilote:±6kHz dév 60dB(Entrée ANT)	(B)	FM 98.1MHz	VR6 (X05-318)	Diaphone minimale. Un compromis de réglage peut être nécessaire si les séparations de gauche à droite et de droite à gauche sont inégales.	
7	SUPPRESSION DE SIGNAL PILOTE	(C) 98.1MHz 0dév Pilote:±6kHz dév 60dB(Entrée ANT)	(B)	FM 98.1MHz	VR7 (X05-318)	Sortie minimale	
8	SENSIBILITE DK	(E) 98.1MHz 1kHz.±40kHz dév SK,5.33% mod DK,30% mod 60dB(Entrée ANT)	Connecter un voltmétre AC entre à TP1. (X13-543)	98.1MHz SDK: OFF	VR1 (X13-543)	AC 17mV	(b)

REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER (AMPLI-TUNER)	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION SDK							
(1)	DK VCO	OFF DK SW OFF BK SW	Connecter un compteur de Fréquence à TP3. (X13-543)	FM 98,1MHz SDK:ON	VR2 (X13-543)	125Hz	(c)
(2)	SK COIL	(E) 98,1MHz 1kHz ON SK SW ON BK SW 20dB(Entrée ANT)	(B)	FM 98,1MHz	VR3 (X14-195)	Régler de façon que le voyant accordé s'allnme.	
(3)	NIVEAU DE DK	(E) 98,1MHz 1kHz.±40kHz dév SK.5,33% mod DK.30% BK.60%mod 60dB(Entrée ANT)	(B)	FM 98,1MHz VOLUME:0 SDK:ON	VR2 (X14-195)	400mV	
SECTION MA							
<1>	NIVEAU D'ARRET	(D) 999kHz 400Hz. 30% mod 35dB(Entrée ANT)	—	MA AUTO:ON 990kHz	VR4 (X14-195)	ARRET	
SECTION DU MAGNETPHONE							
[1]	AZIMUTH	MTT-216(10kHz)	(B)	Lecture de bande	Vis d'azimut de tête	Régler en sorte que les niveaux de sortie des canaux de l'avance de gauch et de droite et des canaux marchearrière de gauch et de droite soient tous au maximum et identiques.	(d)

ABGLEICH

Die Regler und Knöpfe wire folgt einstellen.

BALANCE :Mittelage LOUD :OFF ATT :OFF
FADER :Mittelage T・ADY :OFF AUTO :OFF
BASS :Mittelage METAL :OFF
TREBLE :Mittelage DOLBY NR :OFF

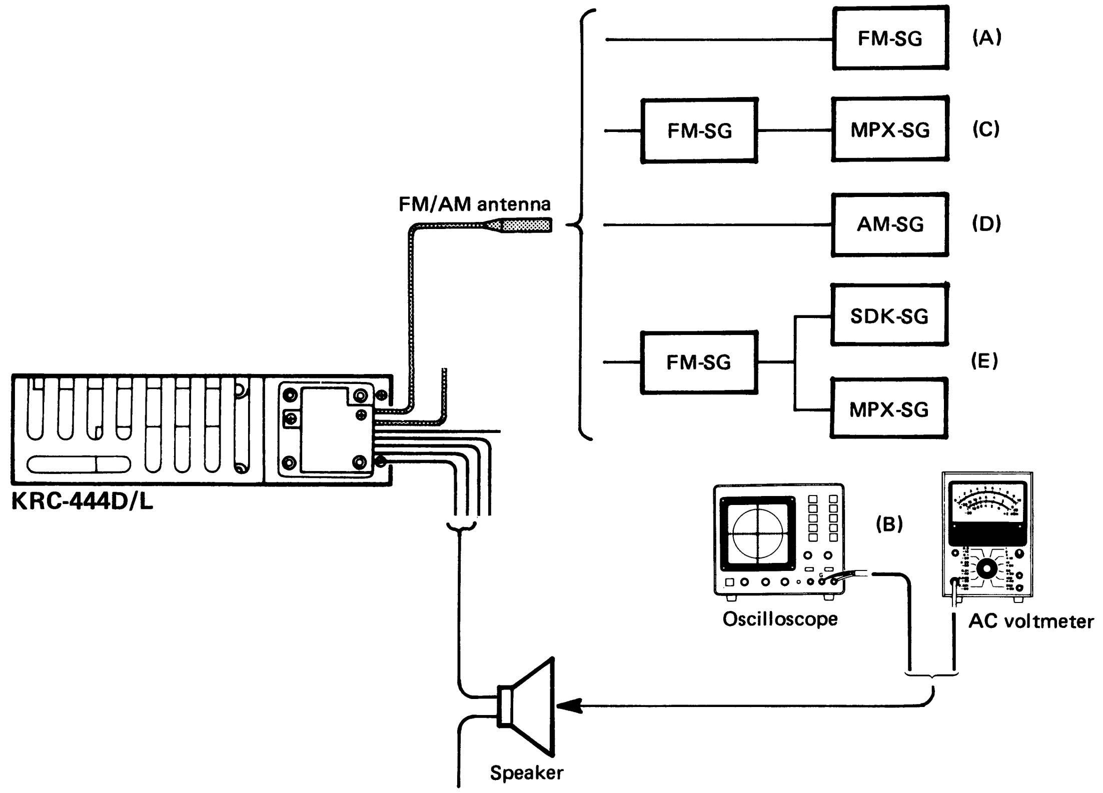
NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER(RECEIVER)-EINSTELLUNG	ABGLEICH PUNKTE	ABGLEICHEN FÜR	ABB.
UKW-ABTEILUNG							
1	DISKRIMINATOR	(A) 98,1MHz 0 Hub 60dB(ANT-Eingang)	Einen Gleichspannungsmesser zwischen zu TP1 anschließen. (X05-318)	FM 98,1MHz	T1 (X05-318)	0V	(a)
2	SUCHEN HALT PEGEL	(A) 98,1MHz 1kHz.±40kHz Hub 20dB(ANT-Eingang)	–	FM SUCHEN: ON 98,1MHz	VR2 (X05-318)	HALT	
3	ANRC	(C) 98,1MHz 1kHz.±40kHz Hub Wähler:L oder R Pilot:±6kHz Hub 60dB(ANT-Eingang)	(B)	FM 98,1MHz	VR3 (X05-318)	Maximaler trennung. Bestes point	
4	IF VERSTÄRKUNG	(C) 98,1MHz 1kHz.±40kHz Hub Pilot:±6kHz Hub 30dB(ANT-Eingang)	(B)	FM 98,1MHz	VR1 (X05-318)	Trennung 10dB	
5	SOFT MUTE PRGEL	(A) 98,1MHz 1kHz.±40kHz Hub 60dB→No Eingang	(B)	FM 98,1MHz	VR5 (X05-318)	Ausgang Geräusch Pegel -25dB (Wenn Antenna stecker Nicht anschließen.)	
6	STEREO KANAL TRENNUNG	(C) 98,1MHz 1kHz.±40kHz Hub Wähler:L oder R Pilot:±6kHz Hub 60dB(ANT-Eingang)	(B)	FM 98,1MHz	VR6 (X05-318)	Minimales Übersprechen Einen Ausgleichregelung kann notwendig sein, falls links zu rechts und rechts zu links Trennungen ungleich sind.	
7	PILOT LÖSCHER	(C) 98,1MHz 0 Hub Pilot:±6kHz Hub 60dB(ANT-Eingang)	(B)	FM 98,1MHz	VR7 (X05-318)	Minimal Ausgang	
8	DK EMPFINDLICHKEIT	(E) 98,1MHz 1kHz.±40kHz Hub SK.5,33% mod DK.30% mod 60dB(ANT-Eingang)	Einen Gleichspannungsmesser zu TP1 anschließen. (X13-543)	98,1MHz SDK: OFF	VR1 (X13-543)	17mV AC	(b)

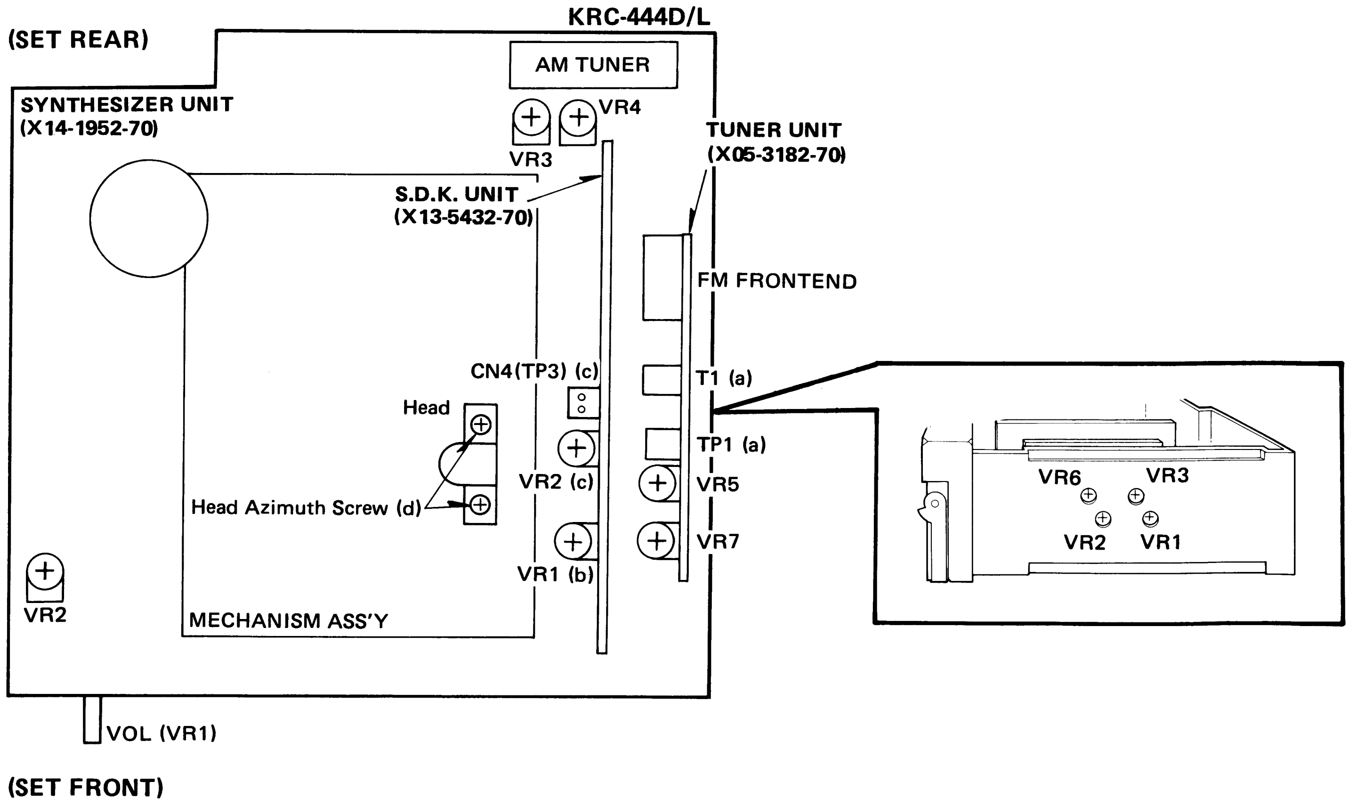
ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER(RECEIVER)-EINSTELLUNG	ABGLEICH PUNKTE	ABGLEICHEN FÜR	ABB.
SDK-ABTEILUNG							
(1)	DK VCO	DK SW OFF BK SW OFF	Einen Frequenz messer zu TP3. anschließen. (X13-543)	FM 98,1MHz SDK:ON	VR2 (X13-543)	125Hz	(c)
(2)	SK LAMP	(E) 98,1MHz 1kHz. SK SW ON BK SW ON 20dB(ANT-Eingang)	(B)	FM 98,1MHz	VR3 (X14-195)	So einstellen, deß die abgestimte Anzeigelampe gerade aufleuchtet.	
(3)	DK PEGEL	(E) 98,1MHz 1kHz.±40kHz Hub SK.5,33% mod DK.30% BK.60%mod 60dB(ANT-Eingang)	(B)	FM 98,1MHz VOLUME:0 SDK:ON	VR2 (X14-195)	400mV	
MW-ABTEILUNG							
<1>	HALT PEGEL	(D) 990kHz 400Hz. 30% mod 35dB(ANT-Eingang)	–	MW AUTO:ON 990kHz	VR4 (X14-195)	HALT	
CASSETTEN-DECK-ABTEILUNG							
[1]	AZIMUTH	MTT-216(10kHz)	(B)	Bandwiedergabe	Kopfazimutschraube	So einstellen, daß die Ausgangspegel der linken und rechten Kanäle bei Rück lauf maximal und übereinstimmend sind.	(d)

ADJUSTMENT/REGLAGE/ABGLEICH

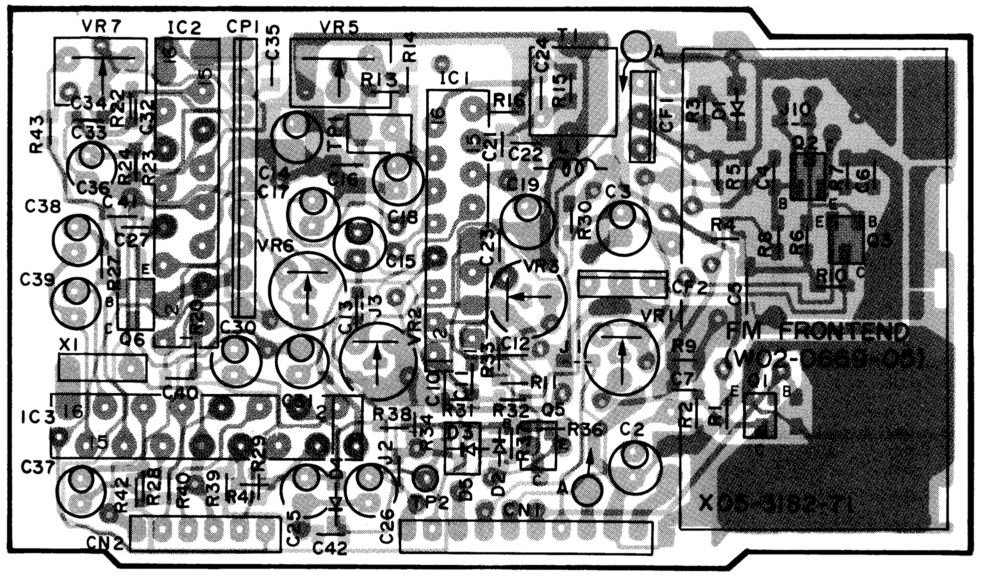
SYSTEM CONNECTIONS


FM-SG
(A)
FM-SG
MPX-SG
(C)
FM/AM antenna
AM-SG
(D)
SDK-SG
FM-SG
(E)
MPX-SG
KRC-444D/L
(B)
Oscilloscope
AC voltmeter
Speaker

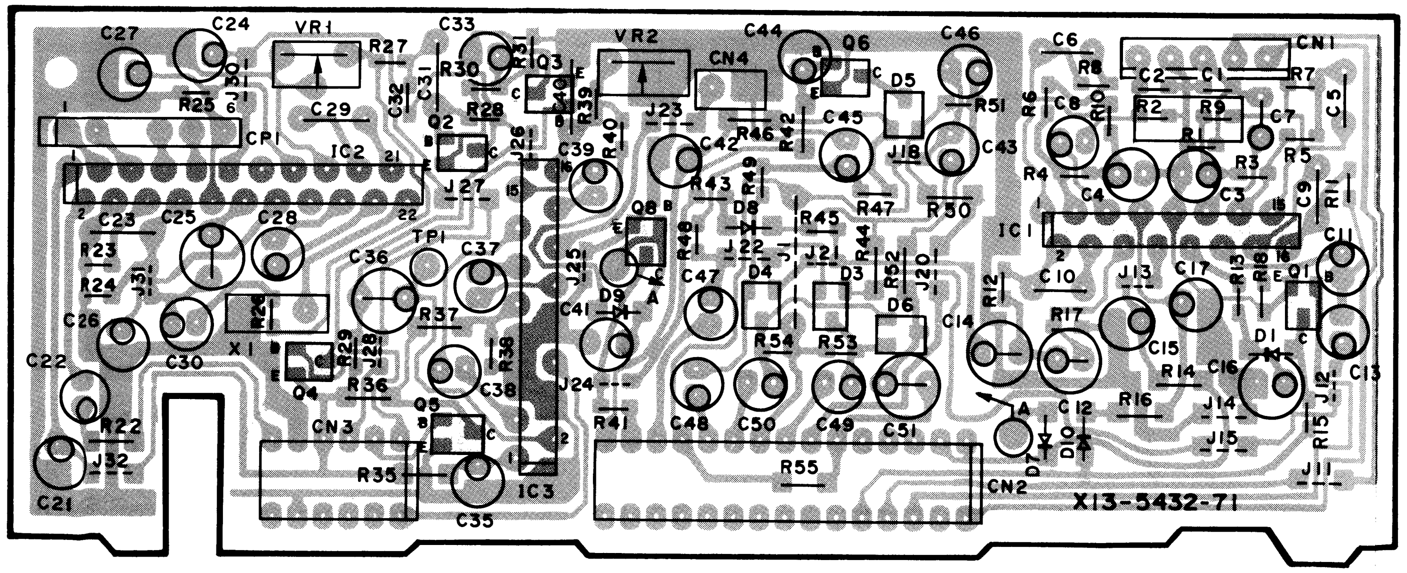

(SET REAR)
KRC-444D/L
AM TUNER
SYNTHESIZER UNIT
(X14-1952-70)
VR4
VR3
TUNER UNIT
(X05-3182-70)
S.D.K. UNIT
(X13-5432-70)
FM FRONTEND
CN4(TP3) (c)
T1 (a)
Head
TP1 (a)
VR2 (c)
VR5
Head Azimuth Screw (d)
VR7
VR1 (b)
VR2
MECHANISM ASS'Y
VOL (VR1)
(SET FRONT)
VR6
VR3
VR2
VR1

PC BOARD

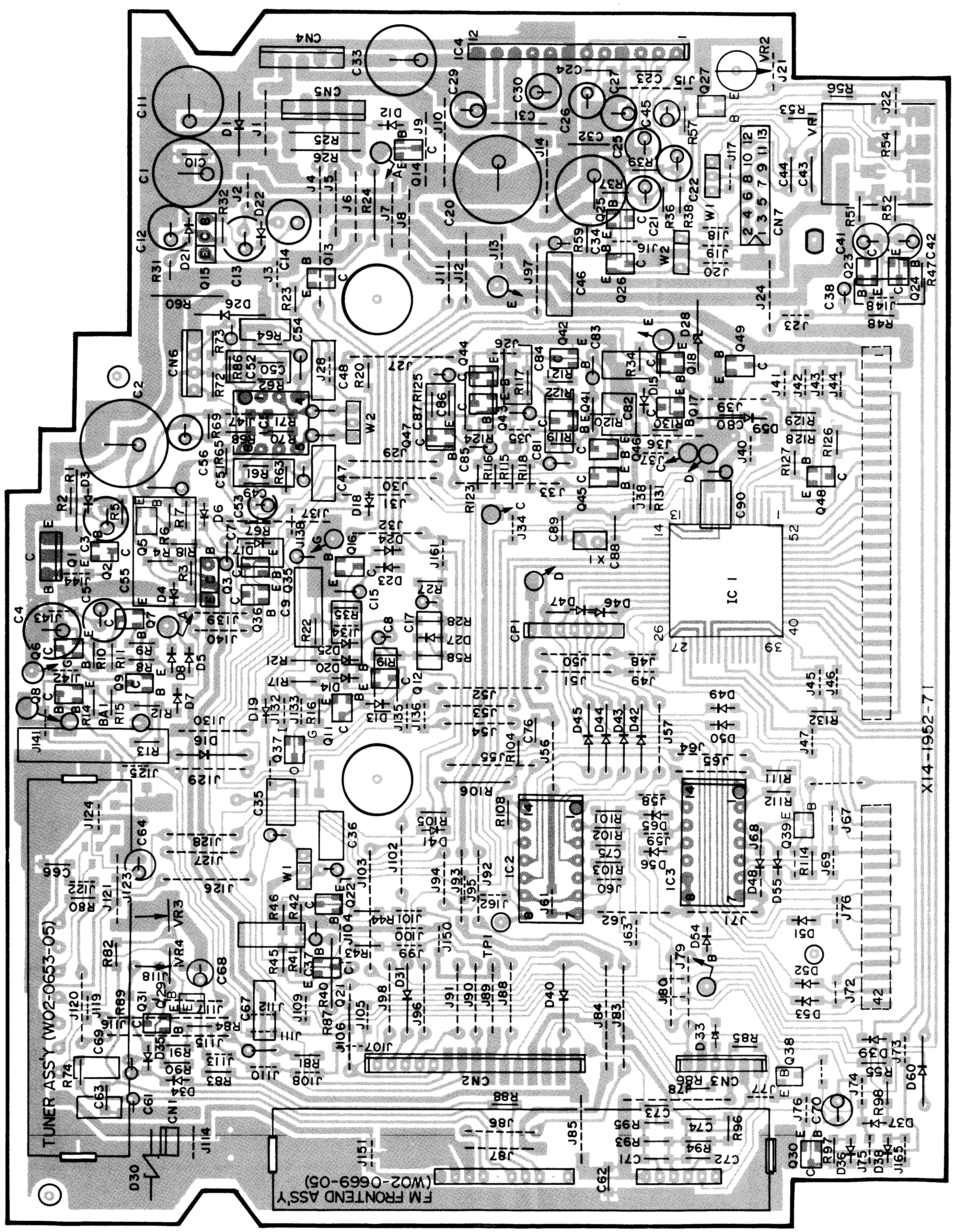
TUNER UNIT (X05-3182-71) Foil side view


FM FRONTEND
(W02-0669-05)
X05-3182-71

S.D.K. UNIT (X13-5432-71) Foil side view



SYNTHESIZER UNIT (X14-1952-71) Foil side view

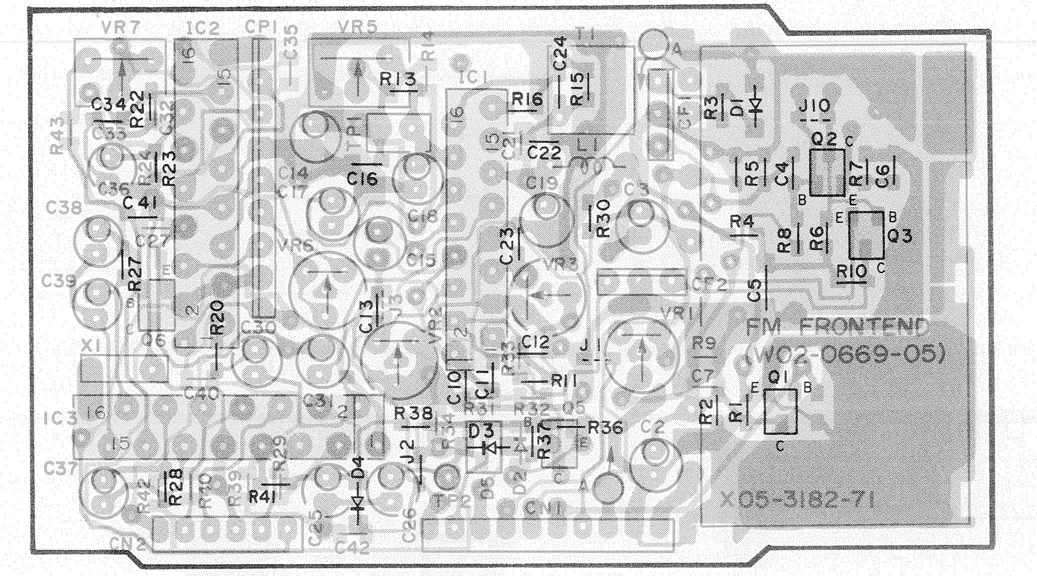

X14-1952-71
TUNER ASS'Y (W02-0653-05)
FM FRONTEND ASS'Y
(W02-0669-05)
IC 1

Refer to the schematic diagram for the values of resistors and capacitors.
Refer to PC BOARD component side view on page 23 or 25.

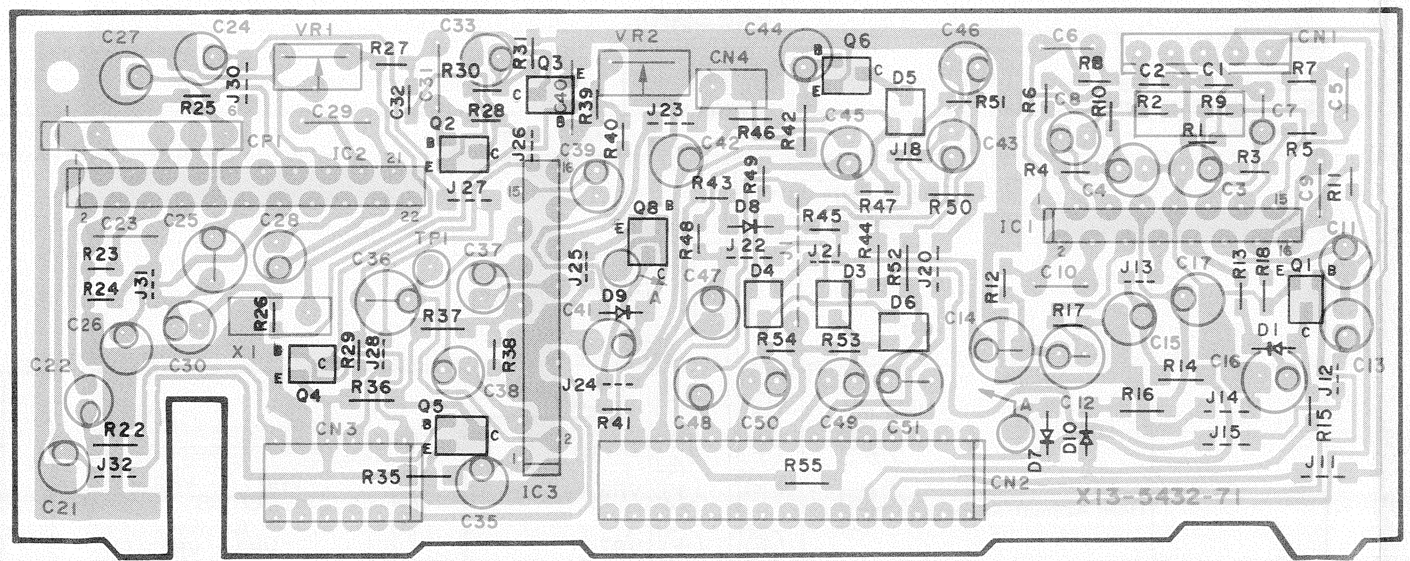
KRC-444D/L KRC-444D/L

PC BOARD

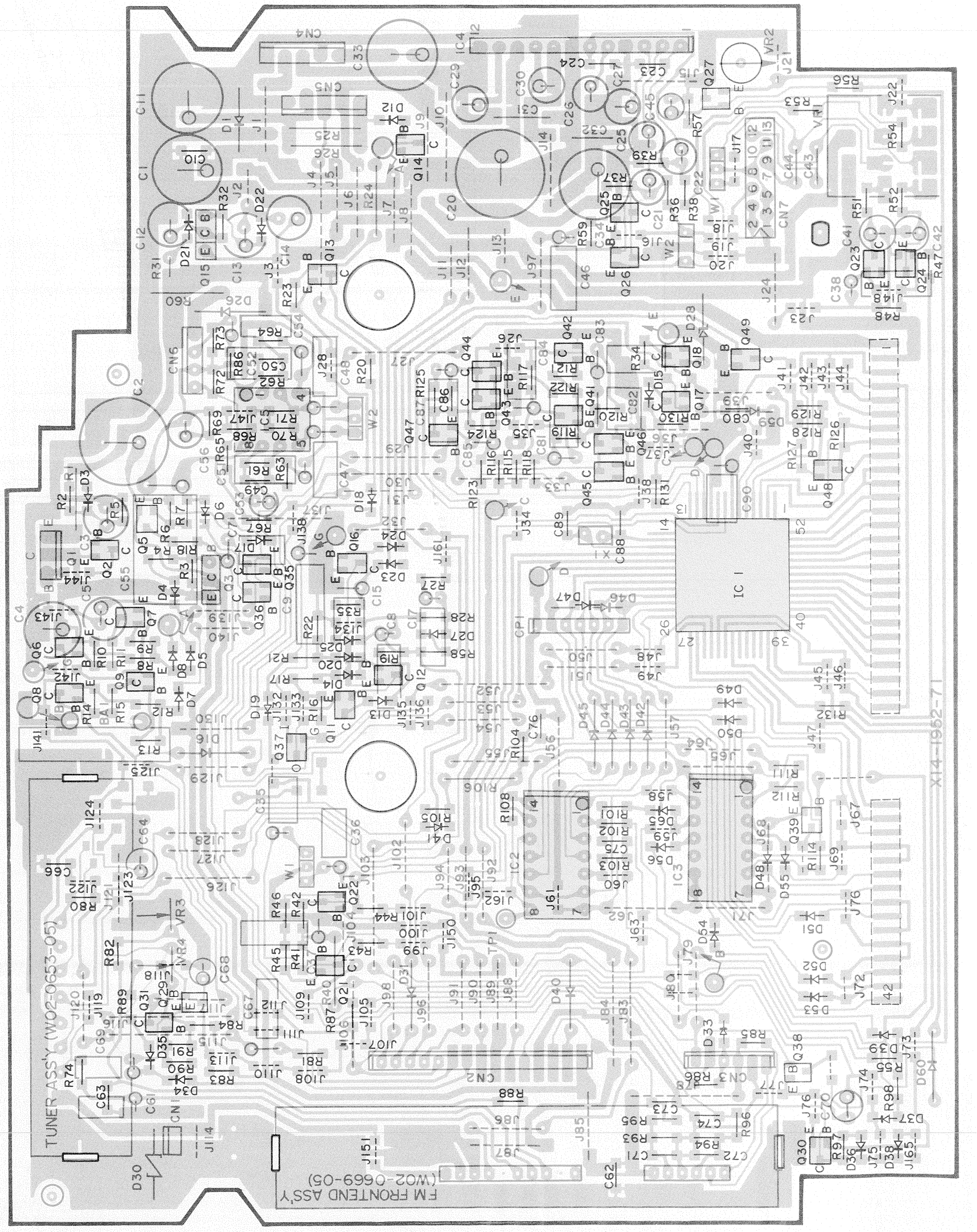
TUNER UNIT (X05-3182-71) Foil side view


FM FRONTEND
(W02-0669-05)
X05-3182-71

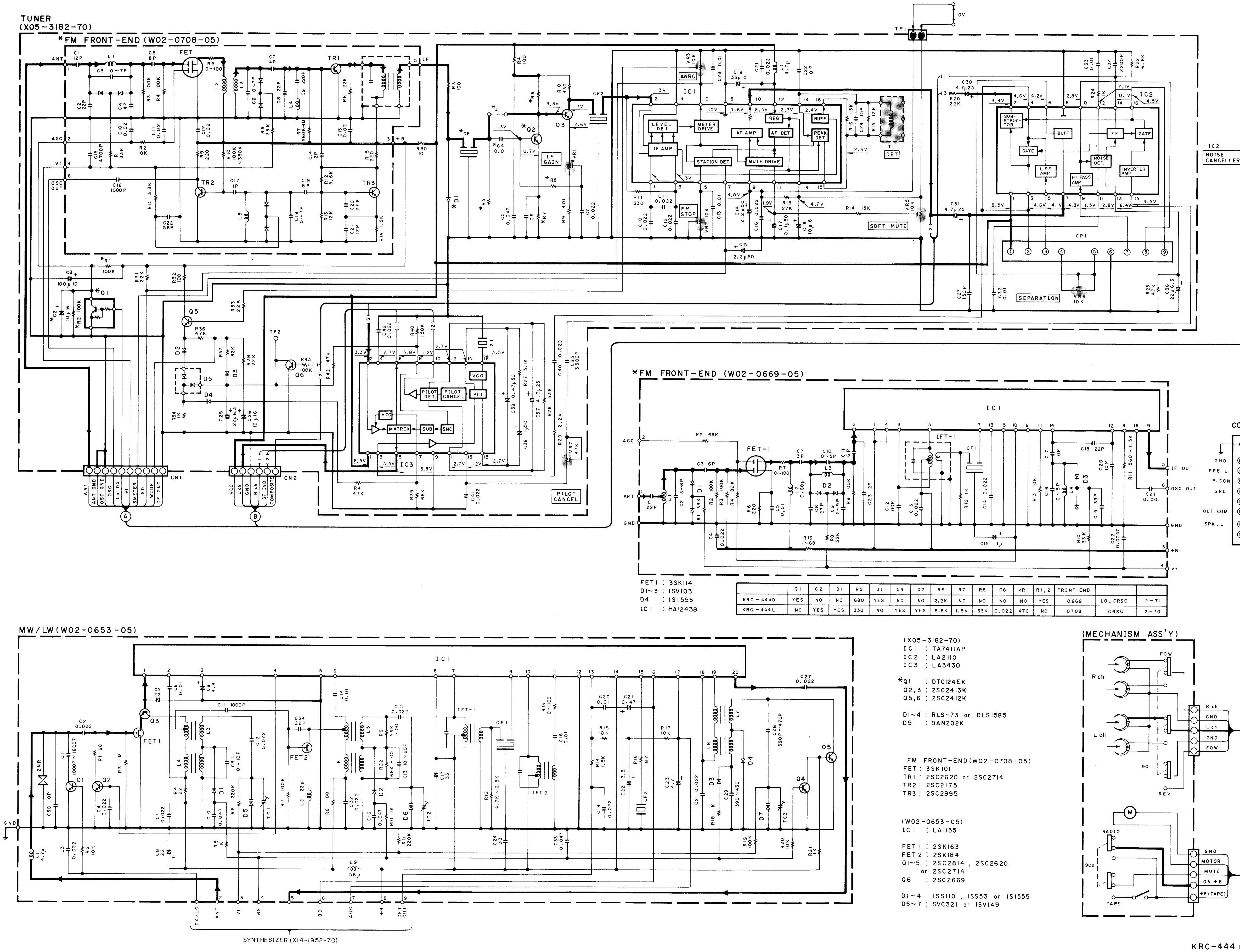
S.D.K. UNIT (X13-5432-71) Foil side view



SYNTHESIZER UNIT (X14-1952-71) Foil side view


IC 1
X14-1952-71
TUNER ASS'Y (W02-0653-05)
FM FRONTEND ASS'Y
(W02-0669-05)

Refer to the schematic diagram for the values of resistors and capacitors.
Refer to PC BOARD component side view on page 23 or 25.


TUNER
(X05-3182-70)
*FM FRONT-END (W02-0708-05)
*FM FRONT-END (W02-0669-05)
MW/LW (W02-0653-05)
IC1
IC2
NOISE CANCELLER
IC3
PILOT CANCEL
SOFT MUTE
SEPARATION
CN1
CN2
CONNECTOR
(MECHANISM ASS'Y)
SYNTHESIZER (X14-1952-70)
A
B
C
D
E
F
G

FET1 : 3SK114
D1~3 : 1SV103
D4 : 1S1555
IC1 : HA12438

	Q1	C2	D1	R5	J1	C4	Q2	R6	R7	R8	C6	VR1	R1, 2	FRONT END		
KRC-444D	YES	NO	NO	680	YES	NO	NO	2.2K	NO	NO	NO	NO	YES	0669	LO, CRSC	2-71
KRC-444L	NO	YES	YES	330	NO	YES	YES	6.8K	1.5K	33K	0.022	470	NO	0708	CRSC	2-70

(X05-3182-70)
IC1 : TA7411AP
IC2 : LA2110
IC3 : LA3430

*Q1 : DTC124EK
Q2,3 : 2SC2413K
Q5,6 : 2SC2412K

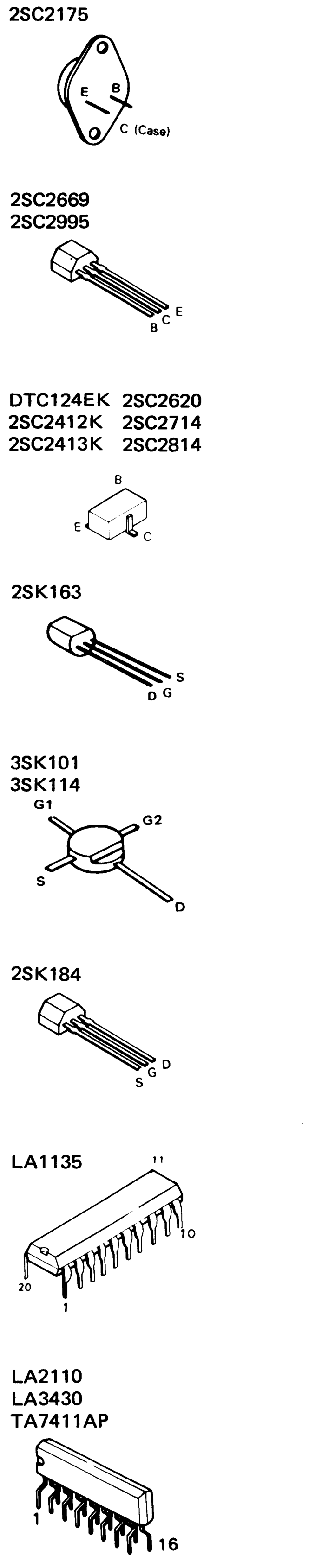
D1~4 : RLS-73 or DLS1585
D5 : DAN202K

FM FRONT-END (W02-0708-05)
FET : 3SK101
TR1 : 2SC2620 or 2SC2714
TR2 : 2SC2175
TR3 : 2SC2995

(W02-0653-05)
IC1 : LA1135

FET1 : 2SK163
FET2 : 2SK184
Q1~5 : 2SC2814 , 2SC2620
or 2SC2714
Q6 : 2SC2669

D1~4 ISS110 , ISS53 or IS1555
D5~7 : SVC321 or ISV149

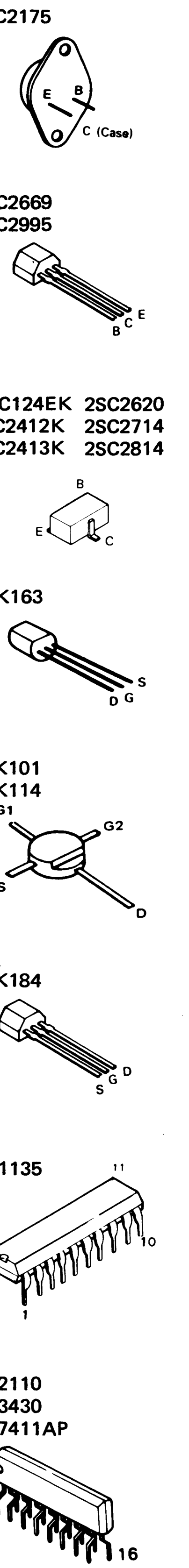

2SC2175
E
B
C (Case)
2SC2669
2SC2995
B
C
E
DTC124EK 2SC2620
2SC2412K 2SC2714
2SC2413K 2SC2814
B
E
C
2SK163
S
D
G
3SK101
3SK114
G1
G2
S
D
2SK184
S
G
D
LA1135
11
10
20
1
LA2110
LA3430
TA7411AP
1
16

KRC-444 L/D (K) (1/2)

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.
- Les tensions c.c. doivent être measurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.
- Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen. Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

KRC-444D/L

KENWOOD


C2175
E
B
C (Case)
C2669
C2995
B C E
C124EK 2SC2620
C2412K 2SC2714
C2413K 2SC2814
B
E
C
K163
S
D G
K101
K114
G1
G2
S
D
K184
S G D
1135
11
10
1
2110
3430
7411AP
16

4D/L

OD

PC BOARD

(X14-1952-XX)

	B	C	E
Q1	13.1V	9.5V	13.7V
Q2	10V	13.1V	9.5V
Q3	8.8V	9.5V	9.4V
Q5	8.7V	9.4V	9.4V
Q6	7.6V	8.2V	9.5V
Q8	7.4V	8.1V	8.2V
Q13	8.8V	9.5V	9.5V
Q15	6.0V	13.5V	5.4V

IC4

1, 2	1.5V	8	7.2V
3	3.6V	9	13.5V
4	0V	10	14.3V
5, 6	1.5V	11	13.6V
7	0V	12	7.2V

IC5

1~3	4.3V
4	0V
5~7	4.3V
8	8.4V

(X13-5432-XX)

IC1

1	2.8V	8~10	0V
2	1.5V	11	1.4V
3	0.9V	12	0.4V
4	0V	13	0.9V
5	1.4V	14	0V
6	0.4V	15	2.8V
7	9.3V	16	1.5V

IC2

1	9.3V	11	6.4V
2, 3	2.0V	12	–
4	0V	13,14	2.9V
5	2.0V	15	0.4V
6	1.5V	16	3.6V
7	2.0V	17	0V
8	1.6V	18~21	3.0V
9	3.0V	22	4.0V
10	0V		

IC3

1	9.3V	9	2.5V
2	2.5V	10	0.9V
3	1.9V	11,12	1.0V
4, 5	0V	13,14	1.2V
6	9.4V	15	1.5V
7, 8	0V	16	1.8V

(X05-3182-XX)

	B	C	E
Q2	1.3V	3.3V	0.7V
Q3	3.3V	7V	2.6V

IC1

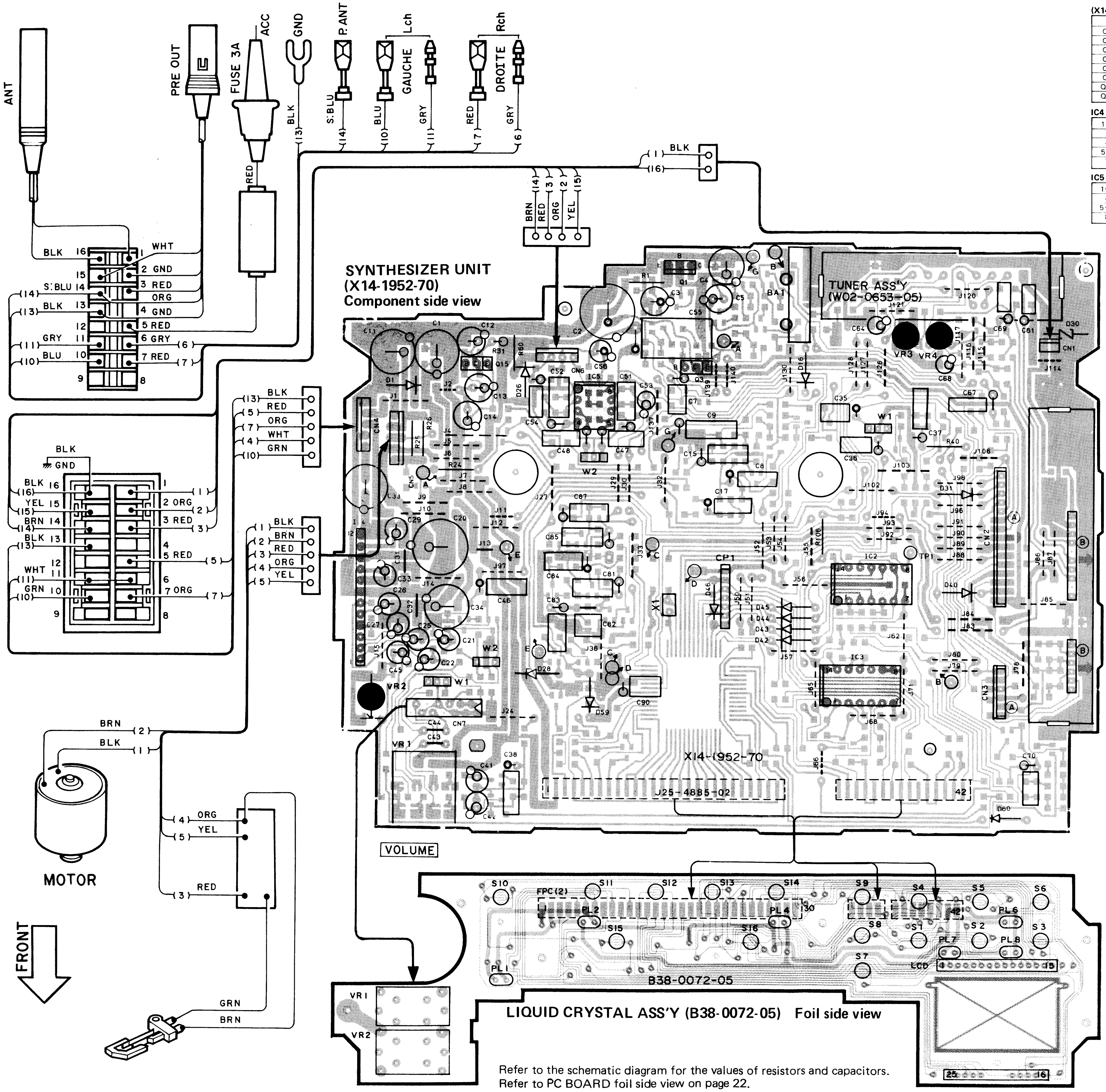
1~3	3V	11	1.9V
4~7	–	12	8.5V
8	10V	13	4.7V
9	4.8V	14,15	2.3V
10	4.6V	16	2.4V

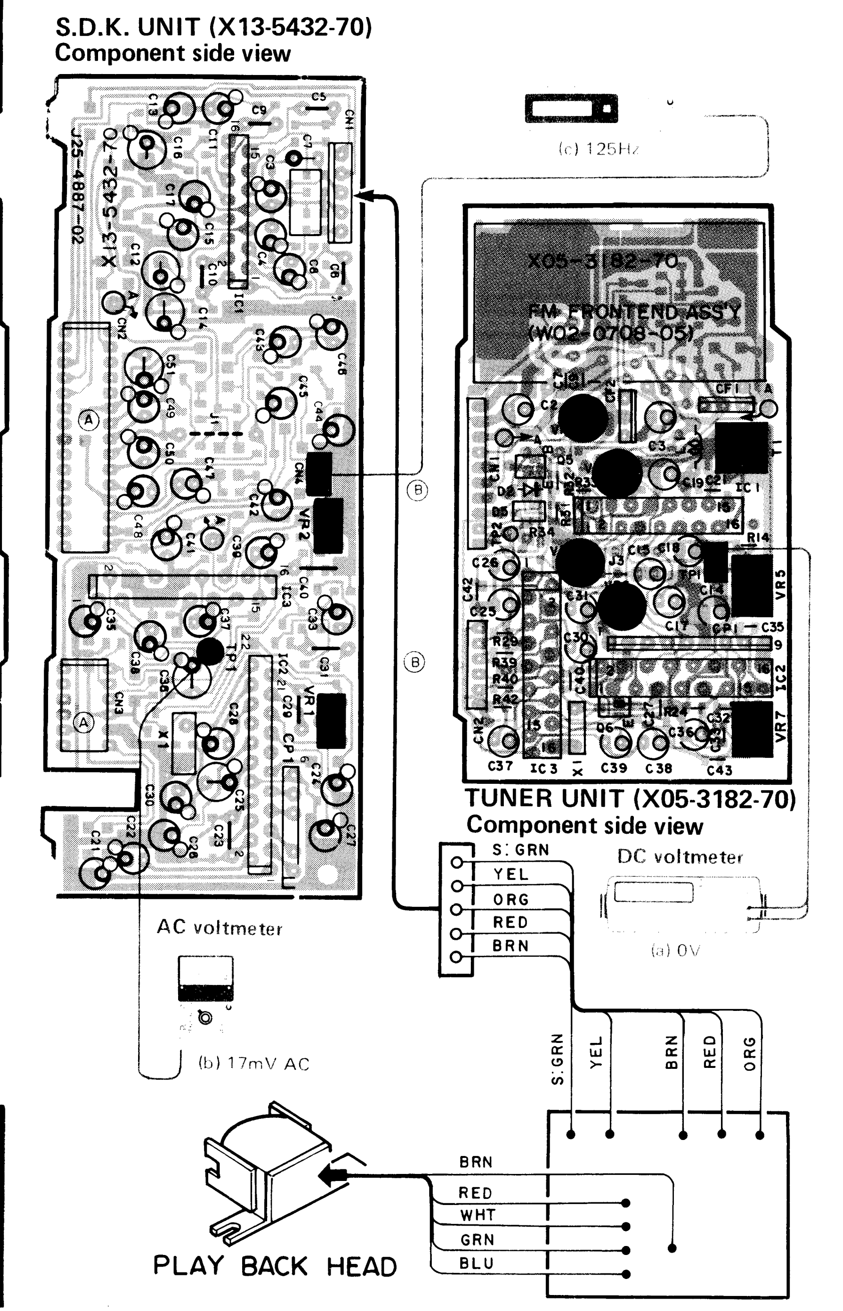
IC2

1	8.5V	9	1.5V
2	3.4V	10,11	2.8V
3, 4	4.6V	12	2.1V
5	4.1V	13	6.4V
6	4.2V	14	0.1V
7	4.8V	15,16	4.5V
8	–		

IC3

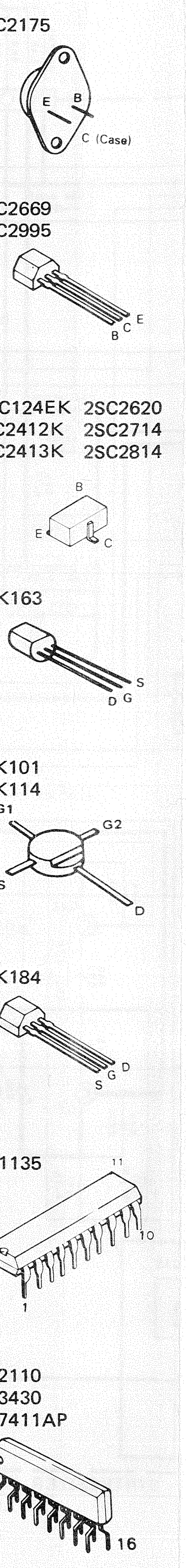
1	8.5V	8	1.2V
2	3.3V	9,10	–
3	3.5V	11,12	2.7V
4	2.7V	13	1.2V
5, 6	3.8V	14,15	2.7V
7	–	16	3.5V


ANT
PRE OUT
FUSE 3A
ACC
GND
P. ANT
Lch
GAUCHE
Rch
DROITE
RED
BLK
S: BLU
BLU
GRY
RED
GRY
(13)
(14)
(10)
(11)
(7)
(6)
BLK (1)
(16)
BRN RED ORG YEL
(14) (3) (2) (15)
BLK 16
15
S: BLU 14
BLK 13
12
GRY 11
BLU 10
9
1 WHT
2 GND
3 RED
ORG
4 GND
5 RED
6 GRY
7 RED
8
BLK
GND
BLK 16
YEL 15
BRN 14
BLK 13
12
WHT 11
GRN 10
9
1
2 ORG
3 RED
4
5 RED
6
7 ORG
8
(13) BLK
(5) RED
(2) ORG
(7) WHT
(10) GRN
(1) BLK
(2) BRN
(3) RED
(4) ORG
(5) YEL
SYNTHESIZER UNIT
(X14-1952-70)
Component side view
TUNER ASS'Y
(W02-0653-05)
X14-1952-70
J25-4885-02
VOLUME
BRN (2)
BLK (1)
MOTOR
(4) ORG
(5) YEL
(3) RED
FRONT
GRN
BRN
VR 1
VR 2
LIQUID CRYSTAL ASS'Y (B38-0072-05) Foil side view
B38-0072-05
LCD
S10
S11
S12
S13
S14
S9
S4
S5
S6
S15
S16
S8
S1
S2
S3
S7
PL1
PL2
PL4
PL6
PL7
PL8
FPC(2)
J30
J5
25
16
CP1
X1
IC2
IC3
IC4
IC5
VR1
VR2
VR3
VR4
W1
W2
TP1
CN1
CN2
CN3
CN4
CN5
CN6
CN7
BA1
D30
42
Ⓐ
Ⓑ


S.D.K. UNIT (X13-5432-70)
Component side view
J25-4887-02
X13-5432-70
(c) 125Hz
X05-3182-70
FM FRONTEND ASS'Y
(W02-0708-05)
TUNER UNIT (X05-3182-70)
Component side view
DC voltmeter
(a) 0V
AC voltmeter
(b) 17mV AC
S: GRN
YEL
ORG
RED
BRN
S: GRN
YEL
BRN
RED
ORG
BRN
RED
WHT
GRN
BLU
PLAY BACK HEAD
IC1
IC2
IC3
VR1
VR2
VR5
VR7
X1
CP1
CN1
CN2
CN4
TP1
Ⓐ
Ⓑ

Refer to the schematic diagram for the values of resistors and capacitors.
Refer to PC BOARD foil side view on page 22.

PC BOARD


J
C2175
E
B
C (Case)
C2669
C2995
B C E
C124EK 2SC2620
C2412K 2SC2714
C2413K 2SC2814
B
E
C
K163
S
D G
K101
K114
G1
G2
S
D
K184
S G D
1135
11
10
1
2110
3430
7411AP
16

4D/L

OD

(X14-1952-XX)

	B	C	E
Q1	13.1V	9.5V	13.7V
Q2	10V	13.1V	9.5V
Q3	8.8V	9.5V	9.4V
Q5	8.7V	9.4V	9.4V
Q6	7.6V	8.2V	9.5V
Q8	7.4V	8.1V	8.2V
Q13	8.8V	9.5V	9.5V
Q15	6.0V	13.5V	5.4V

IC4

1, 2	1.5V	8	7.2V
3	3.6V	9	13.5V
4	0V	10	14.3V
5, 6	1.5V	11	13.6V
7	0V	12	7.2V

IC5

1~3	4.3V
4	0V
5~7	4.3V
8	8.4V

(X13-5432-XX)

IC1

1	2.8V	8~10	0V
2	1.5V	11	1.4V
3	0.9V	12	0.4V
4	0V	13	0.9V
5	1.4V	14	0V
6	0.4V	15	2.8V
7	9.3V	16	1.5V

IC2

1	9.3V	11	6.4V
2, 3	2.0V	12	—
4	0V	13,14	2.9V
5	2.0V	15	0.4V
6	1.5V	16	3.6V
7	2.0V	17	0V
8	1.6V	18~21	3.0V
9	3.0V	22	4.0V
10	0V		

IC3

1	9.3V	9	2.5V
2	2.5V	10	0.9V
3	1.9V	11,12	1.0V
4, 5	0V	13,14	1.2V
6	9.4V	15	1.5V
7, 8	0V	16	1.8V

(X05-3182-XX)

	B	C	E
Q2	1.3V	3.3V	0.7V
Q3	3.3V	7V	2.6V

IC1

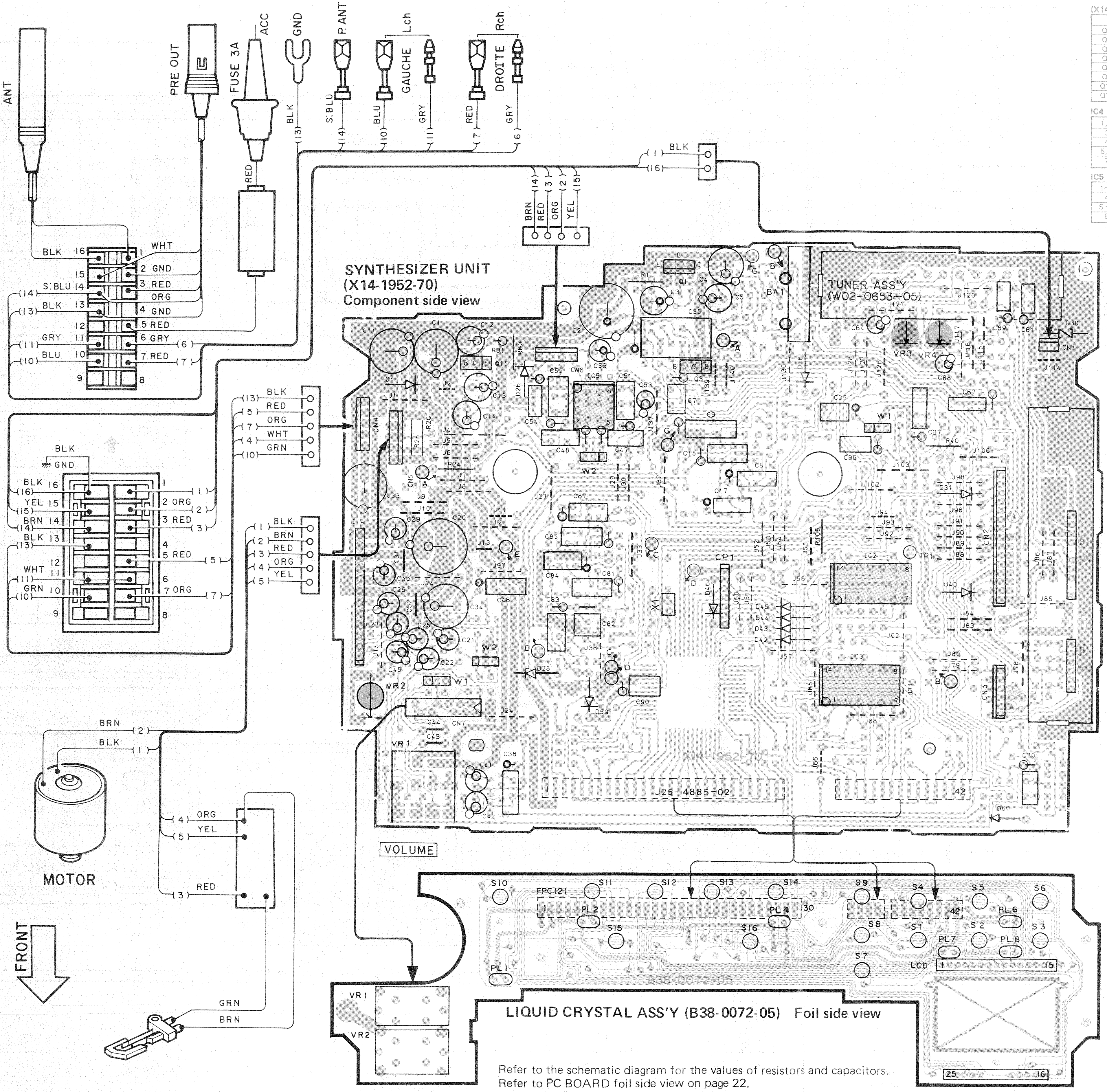
1~3	3V	11	1.9V
4~7	—	12	8.5V
8	10V	13	4.7V
9	4.8V	14,15	2.3V
10	4.6V	16	2.4V

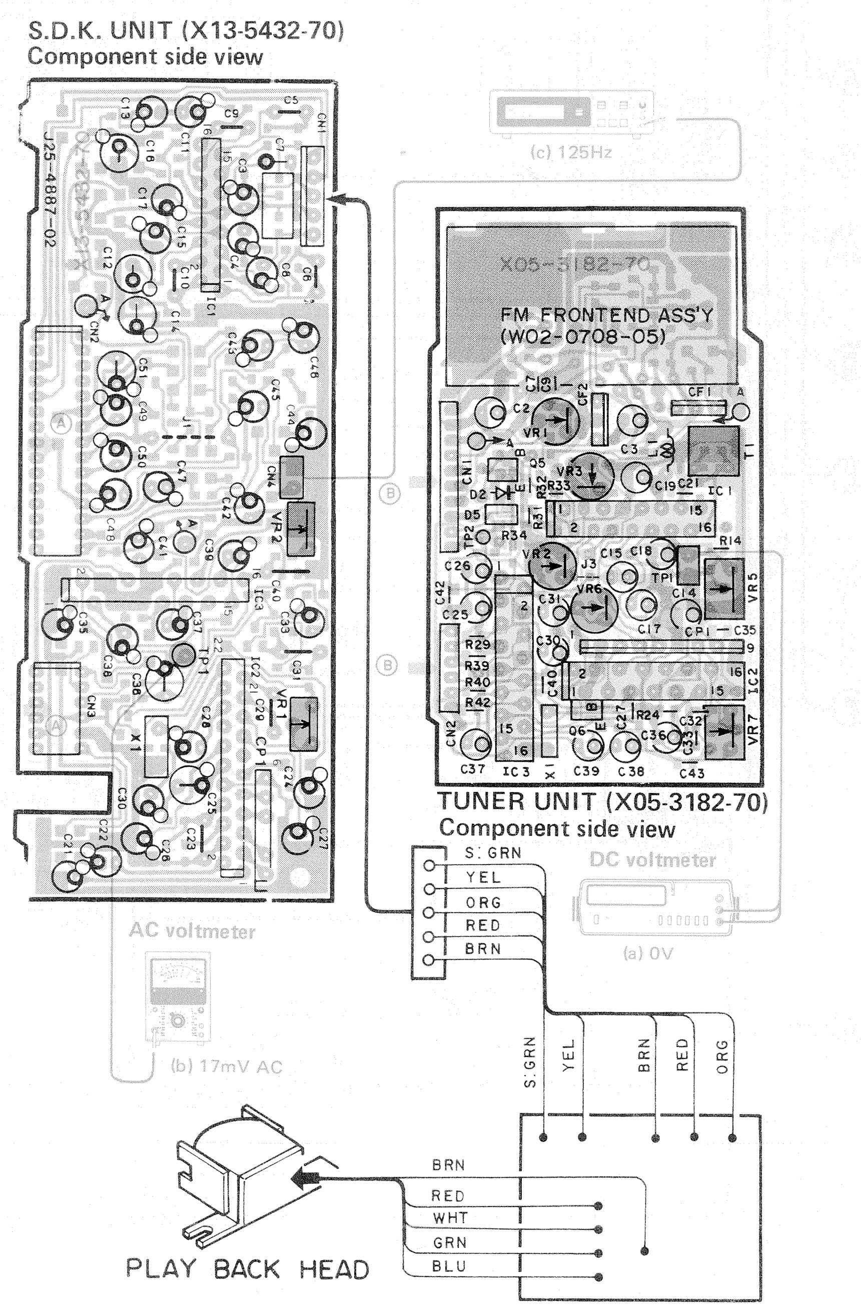
IC2

1	8.5V	9	1.5V
2	3.4V	10,11	2.8V
3, 4	4.6V	12	2.1V
5	4.1V	13	6.4V
6	4.2V	14	0.1V
7	4.8V	15,16	4.5V
8	—		

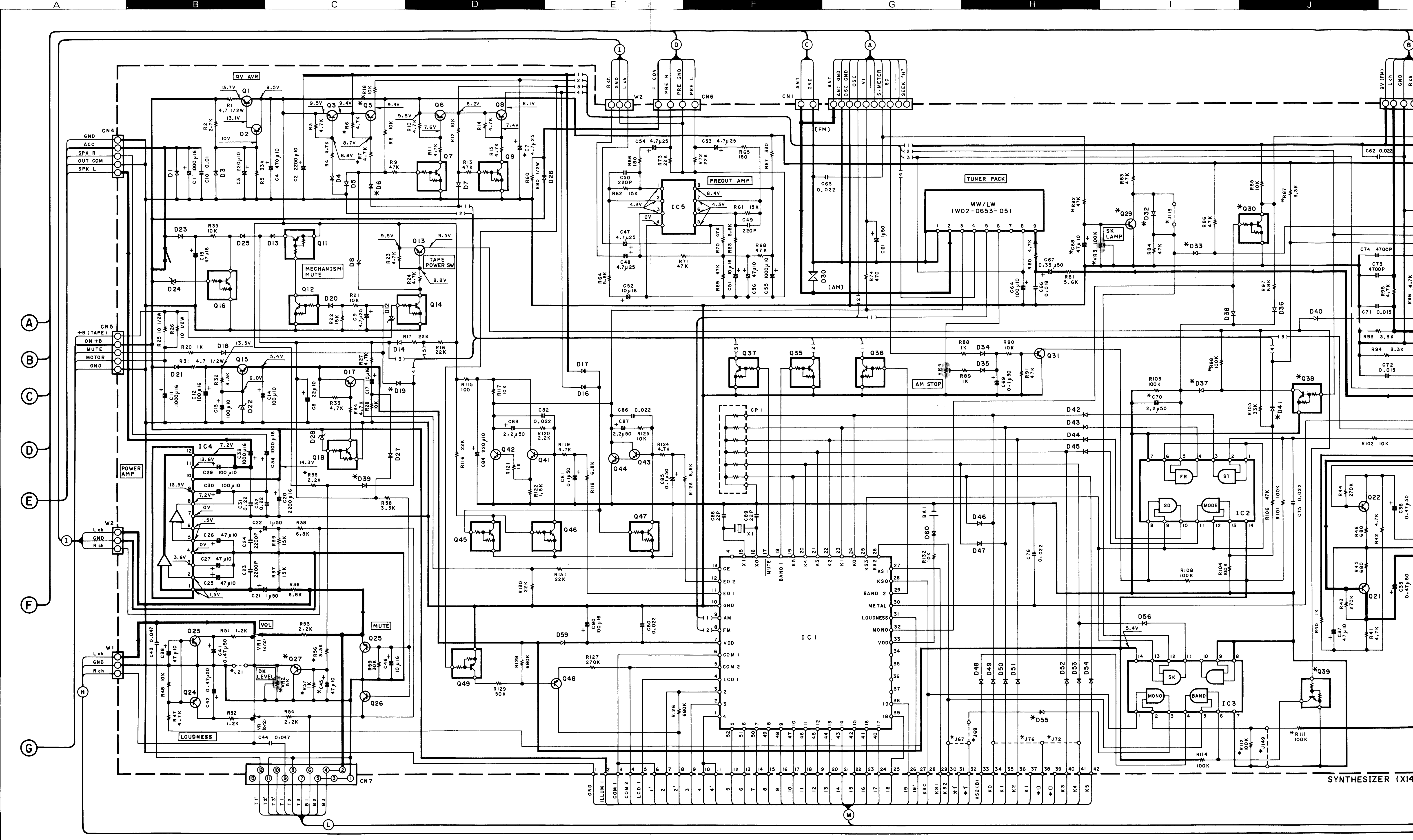
IC3

1	8.5V	8	1.2V
2	3.3V	9,10	—
3	3.5V	11,12	2.7V
4	2.7V	13	1.2V
5, 6	3.8V	14,15	2.7V
7	—	16	3.5V

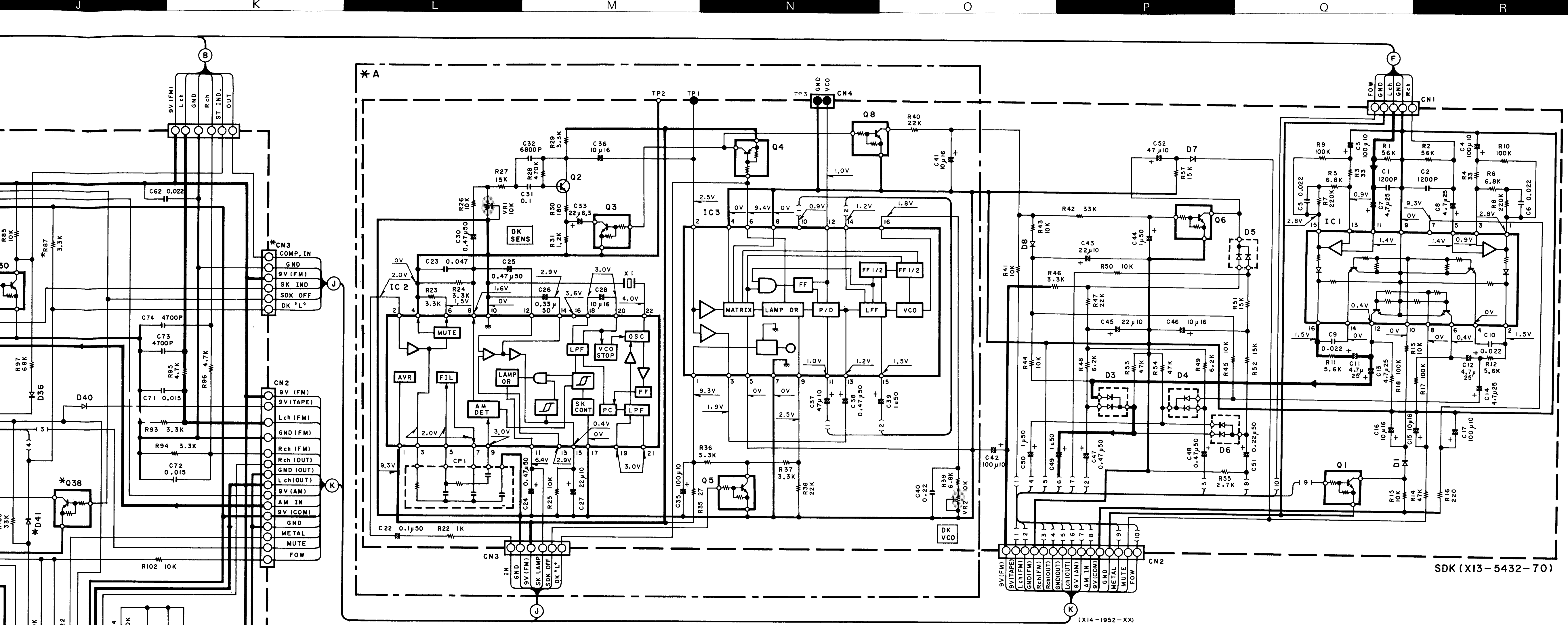

ANT
PRE OUT
FUSE 3A
ACC
GND
P. ANT
Lch
GAUCHE
Rch
DROITE
RED
BLK
S: BLU
BLU
GRY
RED
GRY
BLK
BRN RED ORG YEL
WHT
2 GND
3 RED
ORG
4 GND
5 RED
6 GRY
7 RED
BLK
S: BLU
BLK
GRY
BLU
GRN
GND
YEL
BRN
2 ORG
3 RED
5 RED
7 ORG
SYNTHESIZER UNIT
(X14-1952-70)
Component side view
TUNER ASS'Y
(W02-0653-05)
X14-1952-70
J25-4885-02
VOLUME
MOTOR
FRONT
VR1
VR2
FPC (2)
PL1
PL2
PL4
PL6
PL7
PL8
LCD
B38-0072-05
LIQUID CRYSTAL ASS'Y (B38-0072-05) Foil side view


S.D.K. UNIT (X13-5432-70)
Component side view
J25-4887-02
(c) 125Hz
X05-3182-70
FM FRONTEND ASS'Y
(W02-0708-05)
TUNER UNIT (X05-3182-70)
Component side view
DC voltmeter
(a) 0V
AC voltmeter
(b) 17mV AC
S: GRN
YEL
ORG
RED
BRN
BRN
RED
WHT
GRN
BLU
PLAY BACK HEAD

Refer to the schematic diagram for the values of resistors and capacitors.
Refer to PC BOARD foil side view on page 22.

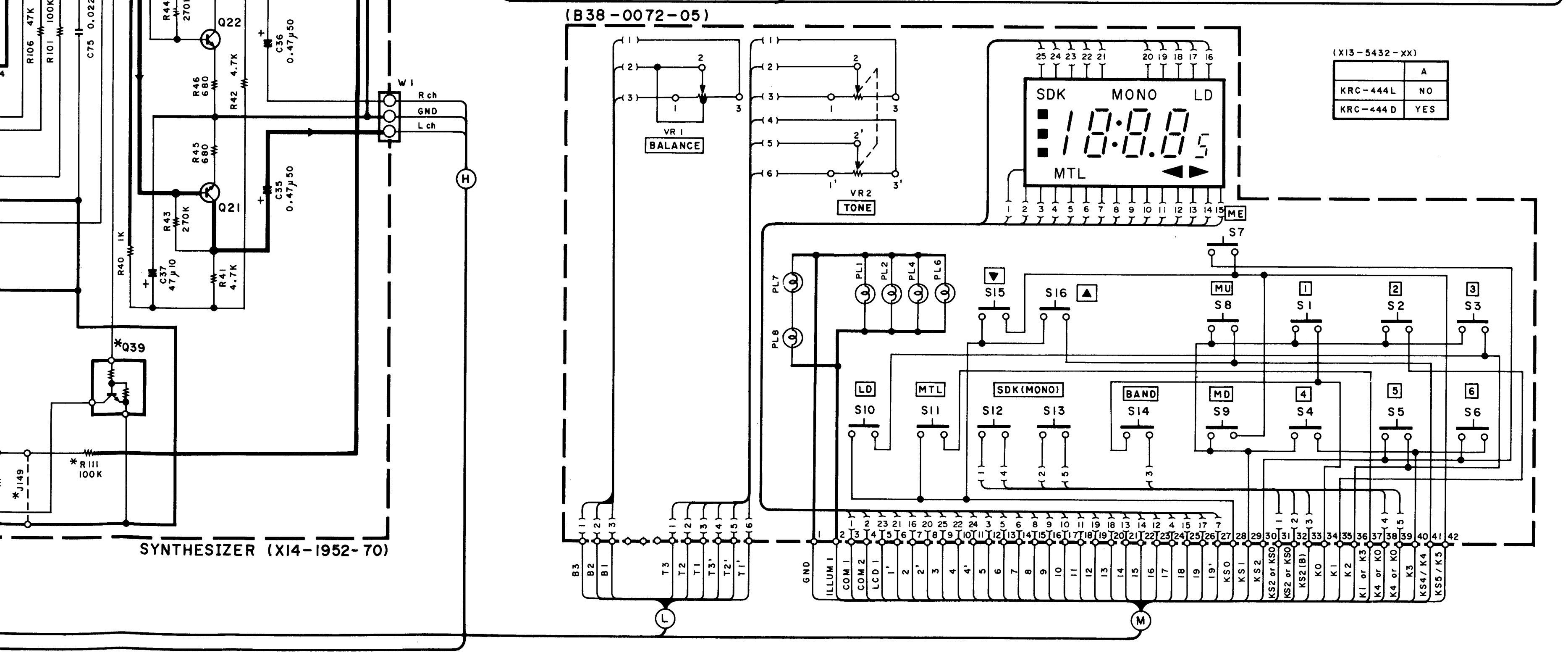

A
B
C
D
E
F
G
H
I
J
9V AVR
Q1
Q2
Q3
Q5
Q6
Q7
Q8
Q9
Q11
Q12
Q13
Q14
Q15
Q16
Q17
Q18
MECHANISM MUTE
TAPE POWER SW
CN4
GND
ACC
SPK R
OUT COM
SPK L
CN5
+B (TAPE)
ON +B
MUTE
MOTOR
GND
POWER AMP
IC4
W2
Lch
GND
Rch
W1
VOL
DK LEVEL
MUTE
LOUDNESS
Q23
Q24
Q25
Q26
Q27
CN7
T1'
T2'
T3'
T1
T2
T3
B1
B2
B3
P CON
PRE R
PRE GND
PRE L
CN6
ANT
GND
CN1
(FM)
(AM)
ANT GND
OSC
V1
S.METER
SD
SEEK 'H'
PREOUT AMP
IC5
TUNER PACK
MW/LW
(W02-0653-05)
SK LAMP
AM STOP
Q29
Q30
Q31
Q35
Q36
Q37
Q38
Q39
Q41
Q42
Q43
Q44
Q45
Q46
Q47
Q48
Q49
Q21
Q22
CP1
X1
BA1
IC1
CE
EO 2
EO 1
GND
AM
FM
VDD
COM 1
COM 2
LCD 1
MUTE
BAND 1
BAND 2
METAL
LOUDNESS
MONO
KS1
KS0
KS2
IC2
FR
ST
SD
MODE
IC3
SK
MONO
BAND
9V (FM)
C62 0.022
C74 4700P
C73 4700P
C71 0.015
C72 0.015
GND
ILLUM 1
COM 1
COM 2
LCD 1
K0
K1
K2
K3
K4
K5
SYNTHESIZER (X14

- DC
vol
bet


J
K
L
M
N
O
P
Q
R
S
*A
SDK (X13-5432-70)
IC1
IC2
IC3
CN1
CN2
CN3
CN4
MATRIX
LAMP DR
P/D
LFF
VCO
FF
FF 1/2
MUTE
AVR
FIL
AM DET
SK CONT
LAMP DR
LPF
VCO STOP
OSC
PC
DK SENS
DK VCO
COMP. IN
GND
9V (FM)
SK IND
SDK OFF
DK "L"
9V (FM)
9V (TAPE)
Lch (FM)
GND (FM)
Rch (FM)
Rch (OUT)
GND (OUT)
Lch (OUT)
9V (AM)
AM IN
9V (COM)
GND
METAL
MUTE
FOW
Lch
GND
Rch
ST IND.
OUT
TP1
TP2
TP3

(X14-1952-XX)

Ref.NO. / DESTINATION	Q5, 27 29, 38 39	Q30	D6, 19, 32 33, 37, 39 41	D55	C7 45 68 70	R6, 7, 18 55, 56, 57 82, 86, 87 98, 99,	R111 112	VR2 3	J67 72 149	J21 69 76 113	CN3
KRC-444D	NO	YES	NO	YES	NO	NO	YES	NO	NO	YES	NO
KRC-444L	YES	NO	YES	NO	YES	YES	NO	YES	YES	NO	YES


(B38-0072-05)
SYNTHESIZER (X14-1952-70)
VR1 BALANCE
VR2 TONE
SDK
MONO
LD
MTL
S1
S2
S3
S4
S5
S6
S7
S8
S9
S10
S11
S12
S13
S14
S15
S16
LD
MTL
SDK(MONO)
BAND
MD
MU
ME
PL1
PL2
PL4
PL6
PL7
PL8
W1
Rch
GND
Lch
*Q38
*Q39
Q21
Q22

(X13-5432-XX)

	A
KRC-444L	NO
KRC-444D	YES

(X14-1952-70)

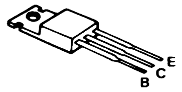
IC1	: µPD1708G-637-00
IC2,3	: TC4081BP or µPD4081BC
IC4	: TA7263P
IC5	: µPC4570C
Q1	: 2SB1015
Q2, 21~24, 29, 31, 42~44	: 2SC2412K
Q3	: 2SA1428
Q4, 7, 9, 12, 30, 35, 36	: DTC124EK
Q5, 6, 8, 13	: 2SA1036K
Q11, 28	: DTA144EK
Q14, 16, 18, 38, 39, 45~47, 49	: DTC144EK
Q15	: 2SC3668
Q17, 48	: 2SA1037K
Q25~27	: 2SD1757K
Q37	: DTC144WK
Q41	: 2SC2412K(S)
D1, 26	: DSM1A1
D3	: RLZJ10
D12, 24	: RLZJ5.6
D16, 31, 40, 59	: 1S1555
D22	: RLZJ6.2
D28	: MTZJ5.6J
D30	: DSP-301N
D60	: 1SS101
D4~8, 13~15, 17~21, 23, 25, 27, 32~39, 41~55, 65	: DLS1585 or RLS-73

(X13-5432-70)

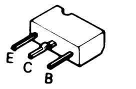
IC1	: BA3406L
IC2	: LA2220
IC3	: LA3365
Q1, 3, 5, 6, 8	: DTC124EK
Q2	: 2SC2412K
Q4	: DTA124EK
D1, 7, 8	: RLS-73, DLS1585
D3~5	: DAN202K
D6	: DAP202K

KRC-444 L/D (K)(2/2)

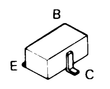
2SB1015



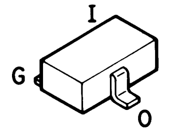
2SA1428
2SC3668



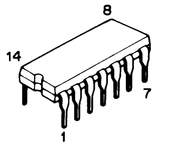
DTA124EK
DTA144EK
DTC124EK
DTC144EK
2SA1036K
2SA1037K
2SC2412K
2SD1757K



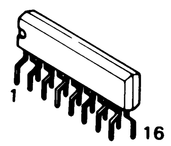
DTC144WK



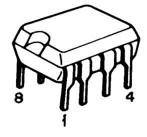
TC4081BP
µPD4081BC



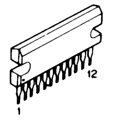
LA3365



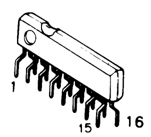
µPC4570C



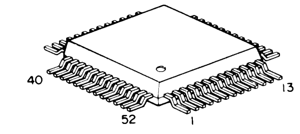
TA7263P



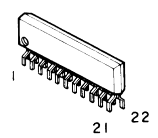
BA3406L



µPD1708G-637-00



LA2220



- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

- Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

- Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen. Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen instrumenten oder Geräten u.U. geringfügig.

KRC-444D/L

KENWOOD

KRC-444D/L KRC-444D/L

PC BOARD

(X14-1952-XX)

	B	C	E
Q1	13.1V	9.5V	13.7V
Q2	10V	13.1V	9.5V
Q3	8.8V	9.5V	9.4V
Q5	8.7V	9.4V	9.4V
Q6	7.6V	8.2V	9.5V
Q8	7.4V	8.1V	8.2V
Q13	8.8V	9.5V	9.5V
Q15	6.0V	13.5V	5.4V

IC4

1, 2	1.5V	8	7.2V
3	3.6V	9	13.5V
4	0V	10	14.3V
5, 6	1.5V	11	13.6V
7	0V	12	7.2V

IC5

1~3	4.3V
4	0V
5~7	4.3V
8	8.4V

(X13-5432-XX)

IC1

1	2.8V	8~10	0V
2	1.5V	11	1.4V
3	0.9V	12	0.4V
4	0V	13	0.9V
5	1.4V	14	0V
6	0.4V	15	2.8V
7	9.3V	16	1.5V

IC2

1	9.3V	11	6.4V
2, 3	2.0V	12	–
4	0V	13,14	2.9V
5	2.0V	15	0.4V
6	1.5V	16	3.6V
7	2.0V	17	0V
8	1.6V	18~21	3.0V
9	3.0V	22	4.0V
10	0V		

IC3

1	9.3V	9	2.5V
2	2.5V	10	0.9V
3	1.9V	11,12	1.0V
4, 5	0V	13,14	1.2V
6	9.4V	15	1.5V
7, 8	0V	16	1.8V

(X05-3182-XX)

	B	C	E
Q2	1.3V	3.3V	0.7V
Q3	3.3V	7V	2.6V

IC1

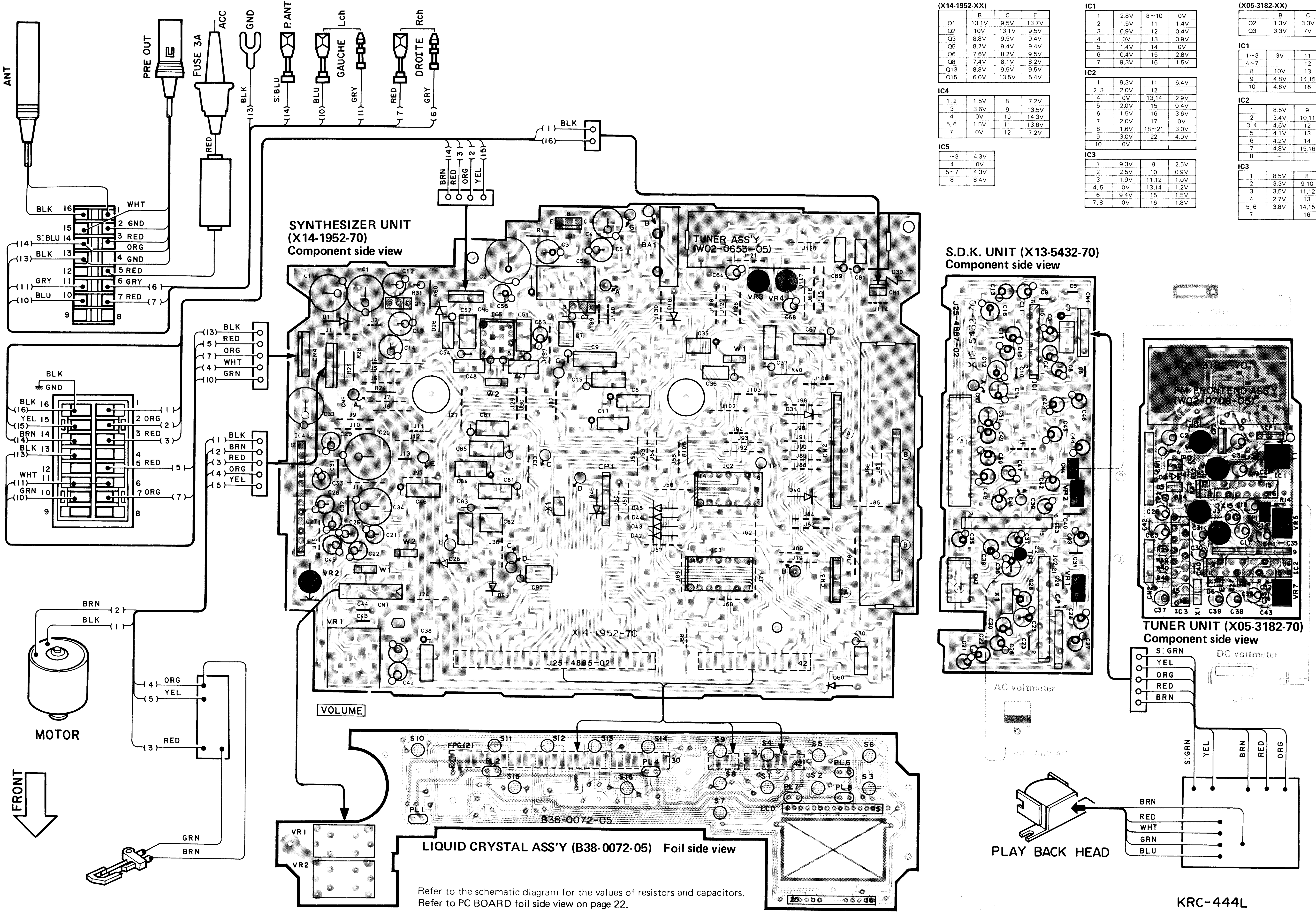
1~3	3V	11	1.9V
4~7	–	12	8.5V
8	10V	13	4.7V
9	4.8V	14,15	2.3V
10	4.6V	16	2.4V

IC2

1	8.5V	9	1.5V
2	3.4V	10,11	2.8V
3, 4	4.6V	12	2.1V
5	4.1V	13	6.4V
6	4.2V	14	0.1V
7	4.8V	15,16	4.5V
8	–		

IC3

1	8.5V	8	1.2V
2	3.3V	9,10	–
3	3.5V	11,12	2.7V
4	2.7V	13	1.2V
5, 6	3.8V	14,15	2.7V
7	–	16	3.5V


ANT
PRE OUT
FUSE 3A
ACC
GND
P. ANT
Lch
GAUCHE
Rch
DROITE
BLK
S: BLU
BLU
GRY
RED
GRY
(13)
(14)
(10)
(11)
(7)
(6)
RED
BLK
WHT
GND
RED
ORG
GND
RED
GRY
RED
S: BLU
BLK
GRY
BLU
BRN
RED
ORG
YEL
YEL
WHT
GRN
SYNTHESIZER UNIT (X14-1952-70)
Component side view
TUNER ASS'Y (W02-0653-05)
X14-1952-70
J25-4885-02
VOLUME
MOTOR
FRONT
S.D.K. UNIT (X13-5432-70)
Component side view
J25-4887-02
X13-5432-70
FM FRONTEND ASS'Y (W02-0706-05)
X05-3182-70
TUNER UNIT (X05-3182-70)
Component side view
S: GRN
YEL
ORG
RED
BRN
PLAY BACK HEAD
BRN
RED
WHT
GRN
BLU
LIQUID CRYSTAL ASS'Y (B38-0072-05) Foil side view
B38-0072-05
FPC (2)
LCD
VR1
VR2
KRC-444L

Refer to the schematic diagram for the values of resistors and capacitors.
Refer to PC BOARD foil side view on page 22.

PC BOARD

(X14-1952-XX)

	B	C	E
Q1	13.1V	9.5V	13.7V
Q2	10V	13.1V	9.5V
Q3	8.8V	9.5V	9.4V
Q5	8.7V	9.4V	9.4V
Q6	7.6V	8.2V	9.5V
Q8	7.4V	8.1V	8.2V
Q13	8.8V	9.5V	9.5V
Q15	6.0V	13.5V	5.4V

IC4

1, 2	1.5V	8	7.2V
3	3.6V	9	13.5V
4	0V	10	14.3V
5, 6	1.5V	11	13.6V
7	0V	12	7.2V

IC5

1~3	4.3V
4	0V
5~7	4.3V
8	8.4V

(X13-5432-XX)

IC1

1	2.8V	8~10	0V
2	1.5V	11	1.4V
3	0.9V	12	0.4V
4	0V	13	0.9V
5	1.4V	14	0V
6	0.4V	15	2.8V
7	9.3V	16	1.5V

IC2

1	9.3V	11	6.4V
2, 3	2.0V	12	–
4	0V	13,14	2.9V
5	2.0V	15	0.4V
6	1.5V	16	3.6V
7	2.0V	17	0V
8	1.6V	18~21	3.0V
9	3.0V	22	4.0V
10	0V		

IC3

1	9.3V	9	2.5V
2	2.5V	10	0.9V
3	1.9V	11,12	1.0V
4, 5	0V	13,14	1.2V
6	9.4V	15	1.5V
7, 8	0V	16	1.8V

(X05-3182-XX)

	B	C	E
Q2	1.3V	3.3V	0.7V
Q3	3.3V	7V	2.6V

IC1

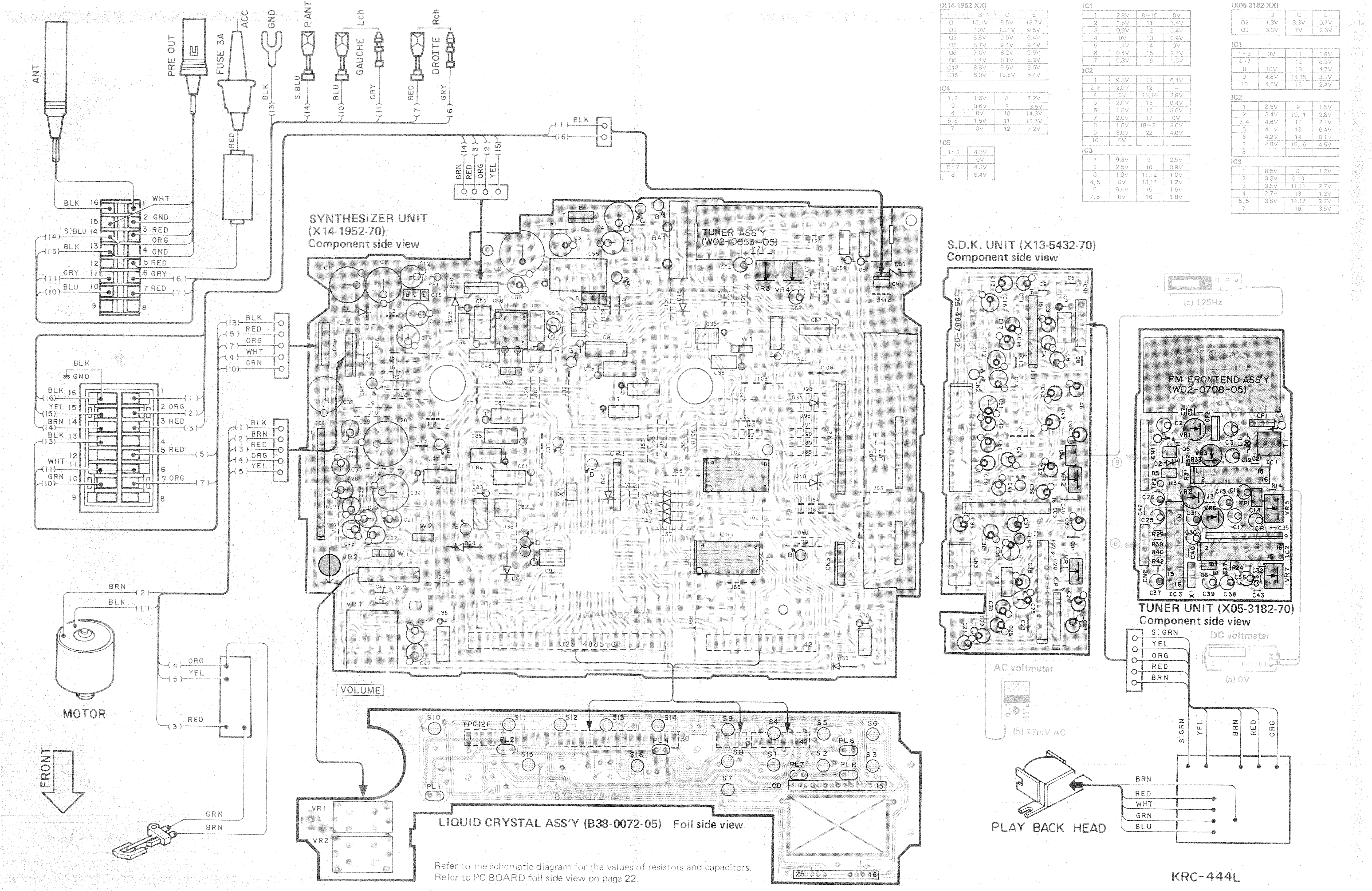
1~3	3V	11	1.9V
4~7	–	12	8.5V
8	10V	13	4.7V
9	4.8V	14,15	2.3V
10	4.6V	16	2.4V

IC2

1	8.5V	9	1.5V
2	3.4V	10,11	2.8V
3, 4	4.6V	12	2.1V
5	4.1V	13	6.4V
6	4.2V	14	0.1V
7	4.8V	15,16	4.5V
8	–		

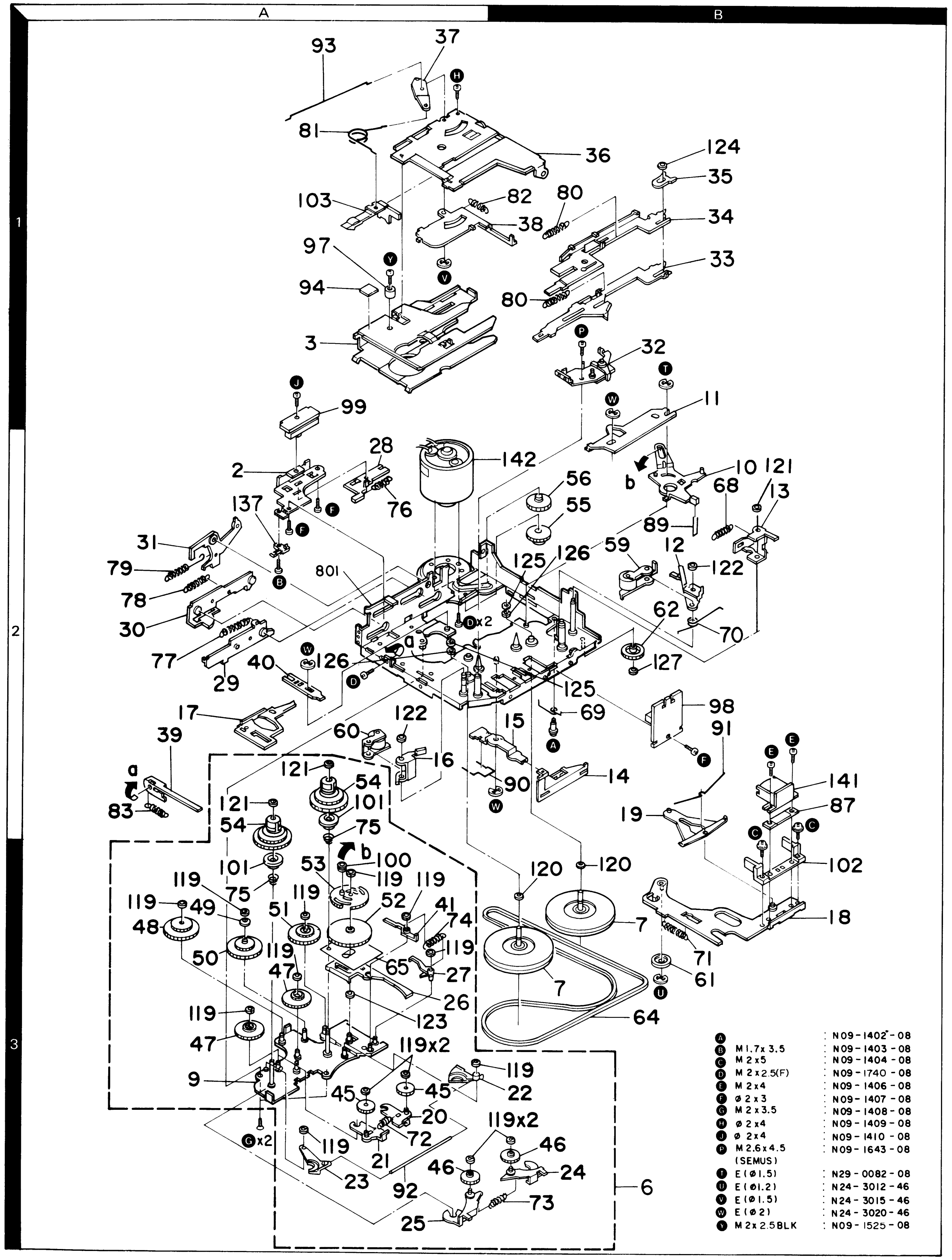
IC3

1	8.5V	8	1.2V
2	3.3V	9,10	–
3	3.5V	11,12	2.7V
4	2.7V	13	1.2V
5, 6	3.8V	14,15	2.7V
7	–	16	3.5V


ANT
PRE OUT
FUSE 3A
ACC
GND
P.ANT
Lch
GAUCHE
Rch
DROITE
BLK
S.BLU
BLU
GRY
RED
(13)
(14)
(10)
(11)
(7)
(6)
BRN
RED
ORG
YEL
WHT
GND
ORG
GRN
SYNTHESIZER UNIT
(X14-1952-70)
Component side view
TUNER ASS'Y
(W02-0653-05)
X14-1952-70
J25-4885-02
S.D.K. UNIT (X13-5432-70)
Component side view
J25-4887-02
(c) 125Hz
X05-3182-70
FM FRONTEND ASS'Y
(W02-0708-05)
TUNER UNIT (X05-3182-70)
Component side view
DC voltmeter
(a) 0V
AC voltmeter
(b) 17mV AC
S.GRN
MOTOR
FRONT
VOLUME
LIQUID CRYSTAL ASS'Y (B38-0072-05) Foil side view
B38-0072-05
LCD
PLAY BACK HEAD
KRC-444L

Refer to the schematic diagram for the values of resistors and capacitors.
Refer to PC BOARD foil side view on page 22.

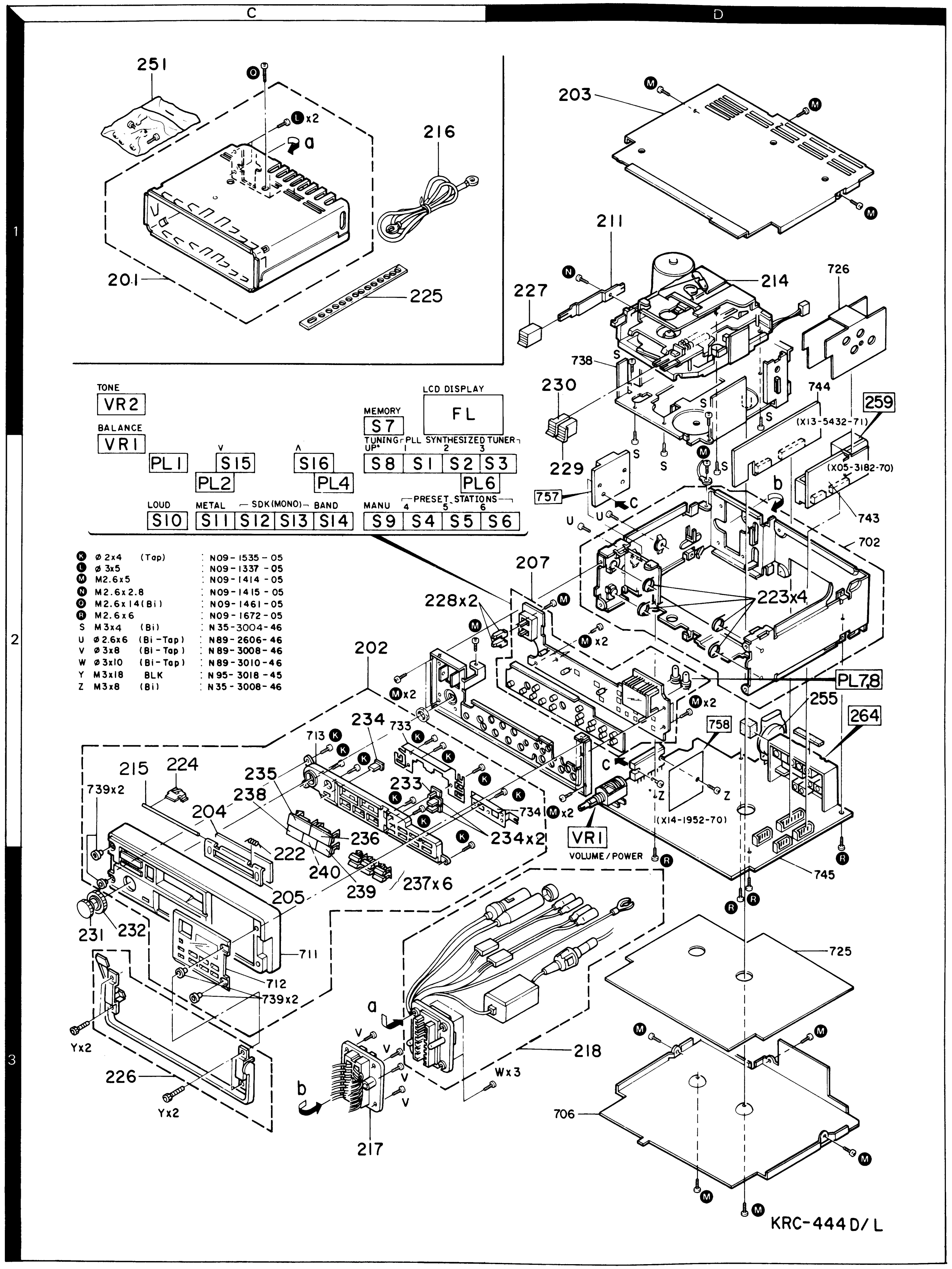
EXPLODED VIEW (MECHANISM)


A
B
1
2
3
93
37
81
36
124
35
103
82
80
38
34
97
33
94
80
3
32
99
11
2
28
142
10
121
137
56
55
76
68
13
31
79
78
30
77
29
40
126
801
125
126
59
12
122
89
62
70
127
17
39
60
122
125
69
15
98
91
16
14
90
141
87
19
102
18
121
54
101
75
100
119
53
51
49
48
50
47
52
41
74
65
27
26
123
120
7
71
61
64
9
45
22
20
72
21
23
46
24
92
73
25
6
a
b
Gx2
Dx2
119x2

Ⓐ		: N09-1402-08
Ⓑ	M1.7x3.5	: N09-1403-08
Ⓒ	M2x5	: N09-1404-08
Ⓓ	M2x2.5(F)	: N09-1740-08
Ⓔ	M2x4	: N09-1406-08
Ⓕ	ø2x3	: N09-1407-08
Ⓖ	M2x3.5	: N09-1408-08
Ⓗ	ø2x4	: N09-1409-08
Ⓙ	ø2x4	: N09-1410-08
Ⓟ	M2.6x4.5 (SEMUS)	: N09-1643-08
Ⓣ	E(ø1.5)	: N29-0082-08
Ⓤ	E(ø1.2)	: N24-3012-46
Ⓥ	E(ø1.5)	: N24-3015-46
Ⓦ	E(ø2)	: N24-3020-46
Ⓨ	M2x2.5BLK	: N09-1525-08

Parts with the exploded numbers larger than 700 are not supplied.

EXPLODED VIEW (UNIT)


C
D
1
2
3
251
Ox2
Lx2
a
216
201
225
203
211
214
726
227
738
230
744
259
(X13-5432-71)
(X05-3182-70)
229
757
743
702
207
228x2
223x4
Mx2
202
PL7,8
255
264
758
234
733
713
235
238
215
224
739x2
204
222
236
233
240
239
237x6
234x2
734
VR1
VOLUME/POWER
(X14-1952-70)
745
205
231
232
711
712
739x2
226
Yx2
218
Wx3
725
217
706
b
c
KRC-444D/L
TONE
VR2
BALANCE
VR1
LCD DISPLAY
FL
MEMORY
S7
TUNING UP
PLL SYNTHESIZED TUNER
1 2 3
PL1
S15
S16
S8 S1 S2 S3
PL2
PL4
PL6
LOUD
METAL
SDK(MONO)
BAND
MANU
PRESET STATIONS 4 5 6
S10 S11 S12 S13 S14
S9 S4 S5 S6

Ⓚ	ø2x4	(Tap)	: N09-1535-05
Ⓛ	ø3x5		: N09-1337-05
Ⓜ	M2.6x5		: N09-1414-05
Ⓝ	M2.6x2.8		: N09-1415-05
Ⓞ	M2.6x14(Bi)		: N09-1461-05
Ⓡ	M2.6x6		: N09-1672-05
S	M3x4	(Bi)	: N35-3004-46
U	ø2.6x6	(Bi-Tap)	: N89-2606-46
V	ø3x8	(Bi-Tap)	: N89-3008-46
W	ø3x10	(Bi-Tap)	: N89-3010-46
Y	M3x18	BLK	: N95-3018-45
Z	M3x8	(Bi)	: N35-3008-46

Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

⁎ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Telle ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
				KRC-444D/L		
201	1C		A01-1430-13	METALLIC CABINET ASSY		
202	2C	*	A20-4885-02	PANEL ASSY	E	
202	2C	*	A20-4982-02	PANEL ASSY	E1	
202	2C	*	A20-4983-02	PANEL ASSY	T	
203	1D	*	A52-0096-03	TOP COVER		
207	2D	*	B38-0072-05	LIQUID CRYSTAL ASSY(LCD DISP)		
-			B46-0100-00	WARRANTY CARD	EE1	
-			B46-0123-03	WARRANTY CARD	T	
-		*	B50-6201-00	INSTRUCTION MANUAL(L)	E	
-		*	B50-6406-00	INSTRUCTION MANUAL(D)	E1	
-		*	B50-6407-00	INSTRUCTION MANUAL(L)	E	
-		*	B50-6408-00	INSTRUCTION MANUAL(D)	E1	
-		*	B50-6409-00	INSTRUCTION MANUAL	T	
-			B58-0803-03	CAUTION CARD	E1	
211	1D		D10-1318-04	LEVER (EJECT)		
214	1D	*	D40-0319-25	CASSETTE MECHANISM ASSY		
216	1C	*	E30-0891-05	GROUND WIRE		
217	3C	*	E30-1496-05	CORD WITH CONNECTOR		
218	3D	*	E30-1497-05	CORD WITH CONNECTOR		
222	2D		G01-1436-14	TORSION COIL SPRING(CHASSIS)		
-		*	H01-7181-04	ITEM CARTON CASE	E	
-		*	H01-7304-04	ITEM CARTON CASE	E1	
-		*	H01-7305-04	ITEM CARTON CASE	T	
-		*	H03-0821-04	OUTER CARTON CASE	E	
-		*	H03-0840-04	OUTER CARTON CASE	E1	
-		*	H03-0841-04	OUTER CARTON CASE	T	
-		*	H10-3330-03	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-3331-03	POLYSTYRENE FOAMED FIXTURE		
-			H25-0173-04	PROTECTION BAG (300X350X0.05)		
-			H25-0226-04	PROTECTION BAG (180X300X0.05)		
-			H25-0234-04	PROTECTION BAG		
225	1C		J54-0059-04	STAY		
-			J61-0067-05	WIRE BAND		
226	3C		K01-0078-03	HANDLE ASSY		
227	1D		K27-1364-04	KNOB (BUTTON) EJECT		
228	2C	*	K27-1645-04	KNOB (BUTTON) TONE,BALANCE		
229	2D	*	K27-1651-04	KNOB (BUTTON) FF		
230	1D	*	K27-1652-04	KNOB (BUTTON) REW		
231	3C		K29-0440-03	KNOB (POWER,VOLUME)		
232	3C		K29-2084-04	KNOB		
233	2C	*	K29-2582-04	KNOB (BUTTON) MEMORY		
234	2C,2D	*	K29-2583-04	KNOB (BUTTON) LOUD,MANU		
235	2C	*	K29-2415-04	KNOB (BUTTON) DOWN		
236	2C	*	K29-2416-04	KNOB (BUTTON) UP		
237	3C	*	K29-2442-04	KNOB (BUTTON) PRESET STATIONS		
238	2C	*	K29-2443-04	KNOB (BUTTON) METAL		
239	3C	*	K29-2444-04	KNOB (BUTTON) BAND		
240	3C	*	K29-2445-04	KNOB (BUTTON) SDK	E1	
240	3C	*	K29-2509-04	KNOB (BUTTON) MONO	ET	

E: Scandinavia & Europe H:Audio Club K: USA P: Canada W:Europe
A: Saudi Arabia T: England U: PX(Far East, Hawaii)
UE : AAFES(Europe) X: Australia M: Other Areas

E : KRC-444L
E1 : KRC-444D
T : KRC-444

PARTS LIST

＊ New Parts

Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti-nation 仕向	Re-marks 備考
251	1C		N99-0099-05	SCREW SET		
K	2C,2D		N09-1535-05	TAPTITE SCREW (PANEL ASSY)		
L	1C		N09-1337-05	TAPTITE SCREW (Ø3X5)		
M	2D,3D		N09-1414-05	TAPTITE SCREW (M2.6X5)		
N	1D		N09-1415-05	MACHINE SCREW (M2.6X2.8)		
Q	1C		N09-1461-05	STEPPED SCREW (M2.6X14)		
R	3D		N09-1672-05	TAPTITE SCREW (M2.6X6)		
255	2D	＊	W09-0037-05	BATTERY		
TUNER UNIT (X05-3182-70)						
C2			C90-0478-05	ELECTRO 10UF 16WV		
C3			C90-0831-05	ELECTRO 33UF 10WV		
C4			CK73FB1H103K	CHIP C 0.010UF K		
C5		＊	CK73EB1H473Z	CHIP C 0.047UF Z		
C6 ,7		＊	CK73FB1H223K	CHIP C 0.022UF K		
C10 -12		＊	CK73FB1H223K	CHIP C 0.022UF K		
C13			CK73FB1H103K	CHIP C 0.010UF K		
C14 ,15			C90-0508-05	ELECTRO 2.2UF 50WV		
C16		＊	CK73FB1H223K	CHIP C 0.022UF K		
C17			C90-0477-05	ELECTRO 0.1UF 50WV		
C18			C90-0478-05	ELECTRO 10UF 16WV		
C19			C90-0831-05	ELECTRO 33UF 10WV		
C21		＊	CK73FB1H223K	CHIP C 0.022UF K		
C22		＊	CC73FRH1H100D	CHIP C 10PF D		
C23			CK73FB1H103K	CHIP C 0.010UF K		
C24		＊	CC73FCH1H150J	CHIP C 15PF J		
C25			C90-0494-05	ELECTRO 22UF 6.3WV		
C26			C90-0478-05	ELECTRO 10UF 16WV		
C27		＊	CC73FSL1H151J	CHIP C 150PF J		
C29			CK73FB1H103K	CHIP C 0.010UF K		
C30 ,31			C90-0482-05	ELECTRO 4.7UF 25WV		
C32 ,33			CK73FB1H103K	CHIP C 0.010UF K		
C34			CK73FB1H222K	CHIP C 2200PF K		
C35			CK73FB1H332K	CHIP C 3300PF K		
C36			C90-0494-05	ELECTRO 22UF 6.3WV		
C37			C90-0482-05	ELECTRO 4.7UF 25WV		
C38			C90-0824-05	ELECTRO 1UF 50WV		
C39			C90-0484-05	ELECTRO 0.47UF 50WV		
C40 -42		＊	CK73FB1H223K	CHIP C 0.022UF K		
CN1		＊	E40-3397-05	PIN ASSY		
CN2		＊	E40-3393-05	PIN ASSY		
W1			E31-3571-05	WIRING HARNESS		
CF1 ,2			L72-0135-05	CERAMIC FILTER		
L1			L40-4791-16	SMALL FIXED INDUCTOR(4.7UH,K)		
T1		＊	L30-0450-05	FM IFT		
X1			L78-0208-05	RESONATOR (18.950KHZ)		
--			R92-0670-05	CHIP R 0 OHM		
CP1			R90-0282-05	COMPOSITE ELEMENTS		
R1 ,2			RK73FB2A104J	CHIP R 100K J 1/10W		
R3 ,4			RK73FB2A101J	CHIP R 100 J 1/10W		
R5			RK73FB2A331J	CHIP R 330 J 1/10W		
R6			RK73FB2A682J	CHIP R 6.8K J 1/10W		
R7			RK73FB2A152J	CHIP R 1.5K J 1/10W		
R8			RK73FB2A333J	CHIP R 33K J 1/10W		

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
R9			RK73FB2A471J	CHIP R 470 J 1/10W		
R10 ,11			RK73FB2A331J	CHIP R 330 J 1/10W		
R13			RK73FB2A273J	CHIP R 27K J 1/10W		
R14			RK73FB2A153J	CHIP R 15K J 1/10W		
R15			RK73FB2A123J	CHIP R 12K J 1/10W		
R16		⁎	RK73FB2A132J	CHIP R 1.3K J 1/10W		
R20			RK73FB2A223J	CHIP R 22K J 1/10W		
R22			RK73FB2A682J	CHIP R 6.8K J 1/10W		
R23			RK73FB2A473J	CHIP R 47K J 1/10W		
R24			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R27			RK73FB2A512J	CHIP R 5.1K J 1/10W		
R28			RK73FB2A333J	CHIP R 33K J 1/10W		
R29			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R30		⁎	RK73FB2A100J	CHIP R 10 J 1/10W		
R31			RK73FB2A223J	CHIP R 22K J 1/10W		
R32			RK73FB2A101J	CHIP R 100 J 1/10W		
R33			RK73FB2A223J	CHIP R 22K J 1/10W		
R34			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R36			RK73FB2A473J	CHIP R 47K J 1/10W		
R37		⁎	RK73FB2A823J	CHIP R 82K J 1/10W		
R38			RK73FB2A223J	CHIP R 22K J 1/10W		
R39			RK73FB2A683J	CHIP R 68K J 1/10W		
R40			RK73FB2A154J	CHIP R 150K J 1/10W		
R41 ,42			RK73FB2A473J	CHIP R 47K J 1/10W		
R43			RK73FB2A104J	CHIP R 100K J 1/10W		
VR1			R12-1054-05	TRIMMING POT.(1K)IF GAIN		
VR2 ,3			R12-3071-05	TRIMMING POT.(10K)FM STOP,ANRC		
VR5			R12-3100-05	TRIMMING POT.(10K)SOFT MUTE		
VR6			R12-3071-05	TRIMMING POT.(10K)SEPARATION		
VR7			R12-3103-05	TRIMMING POT.(47K)PILOT CANCEL		
D1 -4			DLS1585	DIODE		
D1 -4			RLS-73	DIODE		
D5			DAN202K	DIODE		
IC1			TA7411AP	IC(FM IF)		
IC2			LA2110	IC(FM NOISE CANCELLER)		
IC3			LA3430	IC(FM MPX)		
Q2 ,3			2SC2413K	TRANSISTOR		
Q5 ,6			2SC2412K	TRANSISTOR		
259	1D		W02-0669-05	FM FRONT-END ASSY	E1	
259	1D	⁎	W02-0708-05	FM FRONT-END ASSY	ET	
S.D.K. UNIT (X13-5432-70)						
C1 ,2		⁎	CK73FB1H122K	CHIP C 1200PF K		
C3 ,4			CE04DW1A101M	ELECTRO 100UF 10WV		
C5 ,6			CQ92M1H223J	MYLAR 0.022UF J		
C7 ,8			C90-0482-05	ELECTRO 4.7UF 25WV		
C9 ,10			CQ92M1H223J	MYLAR 0.022UF J		
C11 -14			CE04DW1E4R7M	ELECTRO 4.7UF 25WV		
C15 ,16			CE04DW1C100M	ELECTRO 10UF 16WV		
C17			CE04DW1A101M	ELECTRO 100UF 10WV		
C22			C90-0477-05	ELECTRO 0.1UF 50WV	E1	
C23			CF92V1H473J	MF 0.047UF J	E1	
C24 ,25			C90-0484-05	ELECTRO 0.47UF 50WV	E1	
C26			C90-0507-05	ELECTRO 0.33UF 50WV	E1	
C27			C90-0497-05	ELECTRO 22UF 10WV	E1	

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C28			CE04DW1C100M	ELECTRO 10UF 16WV	E1	
C29			CF92V1H104J	MF 0. 10UF J	E1	
C30			C90-0484-05	ELECTRO 0. 47UF 50WV	E1	
C31			CF92V1H104J	MF 0. 10UF J	E1	
C32		*	CK73FB1H682K	CHIP C 6800PF K	E1	
C33			C90-0494-05	ELECTRO 22UF 6. 3WV	E1	
C35			CE04DW1A101M	ELECTRO 100UF 10WV	E1	
C36			CE04DW1C100M	ELECTRO 10UF 16WV	E1	
C37			CE04DW1A470M	ELECTRO 47UF 10WV	E1	
C38			CE04DW1HR47M	ELECTRO 0. 47UF 50WV	E1	
C39			CE04DW1H010M	ELECTRO 1. 0UF 50WV	E1	
C40			CF92V1H224J	MF 0. 22UF J	E1	
C41			CE04DW1C100M	ELECTRO 10UF 16WV	E1	
C42			CE04DW1A101M	ELECTRO 100UF 10WV		
C43			CE04DW1A220M	ELECTRO 22UF 10WV		
C44			CE04DW1H010M	ELECTRO 1. 0UF 50WV		
C45			CE04DW1A220M	ELECTRO 22UF 10WV		
C46			CE04DW1C100M	ELECTRO 10UF 16WV		
C47 ,48			CE04DW1HR47M	ELECTRO 0. 47UF 50WV		
C49 ,50			CE04DW1H010M	ELECTRO 1. 0UF 50WV		
C51			CE04DW1HR22M	ELECTRO 0. 22UF 50WV		
C52			CE04DW1A470M	ELECTRO 47UF 10WV	ET	
CN1			E40-3240-05	PIN ASSY		
CN2		*	E40-3473-05	PIN ASSY		
CN3			E40-3464-05	PIN ASSY	E1	
CN4			E40-3445-15	SOCKET FOR PIN ASSY	E1	
W1			E31-3571-05	WIRING HARNESS	E1	
X1			L78-0208-05	RESONATOR (18. 950KHZ)	E1	
-			R92-0338-05	CLYND CHIP R		
-			R92-0670-05	CHIP R 0 OHM		
CP1			R90-0468-05	COMPOSITE ELEMENTS	E1	
R1 ,2			RK73FB2A563J	CHIP R 56K J 1/10W		
R3 ,4		*	RK73FB2A330J	CHIP R 33 J 1/10W		
R5 ,6			RK73FB2A682J	CHIP R 6. 8K J 1/10W		
R7 ,8			RK73FB2A224J	CHIP R 220K J 1/10W		
R9 ,10			RK73FB2A104J	CHIP R 100K J 1/10W		
R11 ,12			RK73FB2A562J	CHIP R 5. 6K J 1/10W		
R13			RK73FB2A103J	CHIP R 10K J 1/10W		
R14			RK73FB2A473J	CHIP R 47K J 1/10W		
R15			RK73FB2A103J	CHIP R 10K J 1/10W		
R16			RD41DB2B221J	CYLND CHIP R 220 J 1/8W		
R17 ,18			RK73FB2A104J	CHIP R 100K J 1/10W		
R22			RD41DB2B102J	CYLND CHIP R 1. 0K J 1/8W	E1	
R23 ,24			RK73FB2A332J	CHIP R 3. 3K J 1/10W	E1	
R25			RK73FB2A223J	CHIP R 22K J 1/10W	E1	
R26			RK73FB2A103J	CHIP R 10K J 1/10W	E1	
R27			RK73FB2A153J	CHIP R 15K J 1/10W	E1	
R28			RK73FB2A474J	CHIP R 470K J 1/10W	E1	
R29			RK73FB2A332J	CHIP R 3. 3K J 1/10W	E1	
R30		*	RK73FB2A271J	CHIP R 270 J 1/10W	E1	
R31		*	RK73FB2A122J	CHIP R 1. 2K J 1/10W	E1	
R35			RD41DB2B270J	CYLND CHIP R 27 J 1/8W	E1	
R36 ,37			RD41DB2B332J	CYLND CHIP R 3. 3K J 1/8W	E1	

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R38			RK73FB2A223J	CHIP R 22K J 1/10W	E1	
R39			RK73FB2A682J	CHIP R 6.8K J 1/10W		
R40			RK73FB2A223J	CHIP R 22K J 1/10W	E1	
R41			RK73FB2A103J	CHIP R 10K J 1/10W		
R42			RD41DB2B333J	CYLND CHIP R 33K J 1/8W		
R43 ,44			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R45			RK73FB2A103J	CHIP R 10K J 1/10W		
R46			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R47			RK73FB2A223J	CHIP R 22K J 1/10W		
R48 ,49		*	RK73FB2A622J	CHIP R 6.2K J 1/10W		
R50			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R51			RK73FB2A153J	CHIP R 15K J 1/10W		
R52			RD41DB2B153J	CYLND CHIP R 15K J 1/8W		
R53 ,54			RK73FB2A473J	CHIP R 47K J 1/10W		
R55			RD41DB2B272J	CYLND CHIP R 2.7K J 1/8W		
R57			RK73FB2A153J	CHIP R 15K J 1/10W		
VR1 ,2			R12-3100-05	TRIMMING POT.(10K)DK SENS,VCO	E1	
D1			DLS1585	DIODE		
D1			RLS-73	DIODE		
D3 -5			DAN202K	DIODE		
D6			DAP202K	DIODE		
D7 -9			DLS1585	DIODE	E1	
D7 -9			RLS-73	DIODE	E1	
D8			DLS1585	DIODE	ET	
D8			RLS-73	DIODE	ET	
IC1			BA3406L	IC(PREAMP FOR TAPE EQ X2)		
IC2			LA2220	IC(SK SIGNAL DETECT)	E1	
IC3			LA3365	IC(FM MPX)	E1	
Q1			DTC124EK	DIGITAL TRANSISTOR		
Q2			2SC2412K	TRANSISTOR	E1	
Q3			DTC124EK	DIGITAL TRANSISTOR	E1	
Q4			DTA124EK	DIGITAL TRANSISTOR	E1	
Q5 ,6			DTC124EK	DIGITAL TRANSISTOR		
Q8			DTC124EK	DIGITAL TRANSISTOR		
SYNTHESIZER UNIT (X14-1952-70)						
C1			CE04DW1C102M	ELECTRO 1000UF 16WV		
C2		*	CE04DW1A222M	ELECTRO 2200UF 10WV		
C3			CE04DW1A221M	ELECTRO 220UF 10WV		
C4			CE04DW1A471M	ELECTRO 470UF 10WV		
C5			CE04DW1A101M	ELECTRO 100UF 10WV		
C7			C90-0482-05	ELECTRO 4.7UF 25WV		
C9			CE04DW1E4R7M	ELECTRO 4.7UF 25WV		
C10			CK73EB1H103K	CHIP C 0.010UF K		
C11			CE04DW1C102M	ELECTRO 1000UF 16WV		
C12			CE04DW1C101M	ELECTRO 100UF 16WV		
C13 ,14			CE04CW1A101M	ELECTRO 100UF 10WV		
C15			CE04DW1C470M	ELECTRO 47UF 16WV		
C17			C90-0478-05	ELECTRO 10UF 16WV		
C20			CE04DW1C222M	ELECTRO 2200UF 16WV		
C21 ,22			CE04DW1H010M	ELECTRO 1.0UF 50WV		
C23 ,24		*	CK73EB1H222K	CHIP C 2200PF K		
C25 -27			CE04DW1A470M	ELECTRO 47UF 10WV		
C29 ,30			CE04DW1A101M	ELECTRO 100UF 10WV		
C31 ,32			CF92V1H224J	MF 0.22UF J		

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C33 ,34			CE04DW1C102M	ELECTRO 1000UF 16WV		
C35 ,36			C90-0484-05	ELECTRO 0. 47UF 50WV		
C37 ,38			CE04DW1A470M	ELECTRO 47UF 10WV		
C41 ,42			CE04DW1HR47M	ELECTRO 0. 47UF 50WV		
C43 ,44			CF92V1H473J	MF 0. 047UF J		
C45			CE04DW1A470M	ELECTRO 47UF 10WV	E1	
C46			CE04DW1C100M	ELECTRO 10UF 16WV		
C47 ,48			C90-0482-05	ELECTRO 4. 7UF 25WV		
C49 ,50			CK41DB1H221K	CYLND CHIP C 220PF K		
C51 ,52			C90-0478-05	ELECTRO 10UF 16WV		
C53			CE04CW1E4R7M	ELECTRO 4. 7UF 25WV		
C54			C90-0482-05	ELECTRO 4. 7UF 25WV		
C55			CE04DW1A102M	ELECTRO 1000UF 10WV		
C56			CE04DW1A470M	ELECTRO 47UF 10WV		
C61			CE04CW1H010M	ELECTRO 1. 0UF 50WV		
C62 ,63		*	CK73EB1H223K	CHIP C 0. 022UF K		
C64			CE04DW1A101M	ELECTRO 100UF 10WV		
C66		*	CK73EB1H183K	CHIP C 0. 018UF K		
C67			CE04DW1HR33M	ELECTRO 0. 33UF 50WV		
C68			CE04DW1A470M	ELECTRO 47UF 10WV	E1	
C69			CE04CW1H0R1M	ELECTRO 0. 1UF 50WV		
C70			C90-0508-05	ELECTRO 2. 2UF 50WV	E1	
C71 ,72		*	CK73EB1H153K	CHIP C 0. 015UF K		
C73 ,74		*	CK73EB1H472K	CHIP C 4700PF K		
C75 ,76		*	CK73EB1H223K	CHIP C 0. 022UF K		
C80		*	CK73EB1H223K	CHIP C 0. 022UF K		
C81			CE04DW1H0R1M	ELECTRO 0. 1UF 50WV		
C82			CF92V1H223J	MF 0. 022UF J		
C83			CE04DW1H2R2M	ELECTRO 2. 2UF 50WV		
C84			CE04DW1A221M	ELECTRO 220UF 10WV		
C85			CE04DW1H0R1M	ELECTRO 0. 1UF 50WV		
C86		*	CK73EB1H223K	CHIP C 0. 022UF K		
C87			CE04DW1H2R2M	ELECTRO 2. 2UF 50WV		
C88 ,89		*	CC73DCH1H220J	CERAMIC CAPACITOR (TYPE 1)		
C90			C90-1263-05	ELECTRO 100UF 16WV		
CN1			E40-3237-05	PIN ASSY		
CN2		*	E40-3494-05	PIN ASSY		
CN3			E40-3485-05	PIN ASSY		
CN4 ,5			E40-3240-05	PIN ASSY		
CN6			E40-3239-05	PIN ASSY		
CN7			E10-1303-05	FLAT CABLE CONNECTOR		
W1		*	E31-3845-05	WIRING HARNESS		
W2		*	E31-3846-05	WIRING HARNESS		
W3			E31-3576-05	WIRING HARNESS		
W4		*	E31-3579-05	WIRING HARNESS		
W5			E31-3571-05	WIRING HARNESS		
W6			E31-3578-05	WIRING HARNESS		
W7		*	E31-3581-05	WIRING HARNESS		
W8			E31-3573-05	WIRING HARNESS		
W9		*	E31-3579-05	WIRING HARNESS		
X1			L77-0585-05	CRYSTAL RESONATOR(4. 5MHZ)		
-			R92-0338-05	CLYND CHIP R		
CP1		*	R90-0472-05	MULTIPLE RESISTOR		
R1			RD14DB2H4R7J	SMALL-RD 4. 7 J 1/2W		

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R2			RD41DB2B272J	CYLND CHIP R 2.7K J 1/8W		
R3 ,4			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R5			RD41DB2B333J	CYLND CHIP R 33K J 1/8W		
R6 ,7			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W	E1	
R8			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R9			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R10 ,11			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R12			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R13			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R14 ,15			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R16 ,17			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R18			RD41DB2B103J	CYLND CHIP R 10K J 1/8W	E1	
R20			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R21			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R22			RD41DB2B153J	CYLND CHIP R 15K J 1/8W		
R23			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R25 ,26		*	RD14DB2H100J	SMALL-RD 10 J 1/2W		
R27			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R28			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R32			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R33 ,34			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R35			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R36			RD41DB2B682J	CYLND CHIP R 6.8K J 1/8W		
R37			RD41DB2B153J	CYLND CHIP R 15K J 1/8W		
R38			RD41DB2B682J	CYLND CHIP R 6.8K J 1/8W		
R39			RD41DB2B153J	CYLND CHIP R 15K J 1/8W		
R41 ,42			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R43 ,44			RD41DB2B274J	CYLND CHIP R 270K J 1/8W		
R45 ,46			RD41DB2B681J	CYLND CHIP R 680 J 1/8W		
R47			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R48			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R51 ,52			RD41DB2B122J	CYLND CHIP R 1.2K J 1/8W		
R53 -55			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W	E1	
R53 ,54			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W	ET	
R56			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W	E1	
R57			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W	E1	
R59			RD41DB2B303J	CYLND CHIP R 30K J 1/8W		
R60		*	RD14DB2H681J	SMALL-RD 680 J 1/2W		
R61 ,62			RD41DB2B153J	CYLND CHIP R 15K J 1/8W		
R63 ,64			RD41DB2B562J	CYLND CHIP R 5.6K J 1/8W		
R65 ,66			RD41DB2B181J	CYLND CHIP R 180 J 1/8W		
R67			RD41DB2B331J	CYLND CHIP R 330 J 1/8W		
R68 -71			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R72 ,73			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R74			RD41DB2B471J	CYLND CHIP R 470 J 1/8W		
R75			RD41DB2B100J	CYLND CHIP R 10 J 1/8W		
R78			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R80			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R81			RD41DB2B562J	CYLND CHIP R 5.6K J 1/8W		
R82 -84			RD41DB2B473J	CYLND CHIP R 47K J 1/8W	E1	
R83 ,84			RD41DB2B473J	CYLND CHIP R 47K J 1/8W	ET	
R85			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R86			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R87			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W	E1	
R88 ,89			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		

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R90			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R91			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R93 ,94			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R95 ,96			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R97			RD41DB2B683J	CYLND CHIP R 68K J 1/8W		
R98			RD41DB2B104J	CYLND CHIP R 100K J 1/8W	E1	
R101			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R102			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R103,104			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R105			RD41DB2B333J	CYLND CHIP R 33K J 1/8W		
R108			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R111,112			RD41DB2B104J	CYLND CHIP R 100K J 1/8W	ET	
R114			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R115			RD41DB2B101J	CYLND CHIP R 100 J 1/8W		
R116			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R117			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R118			RD41DB2B682J	CYLND CHIP R 6.8K J 1/8W		
R119			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R120			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R121			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R122			RD41DB2B152J	CYLND CHIP R 1.5K J 1/8W		
R123			RD41DB2B682J	CYLND CHIP R 6.8K J 1/8W		
R124			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R125			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R126			RD41DB2B684J	CYLND CHIP R 680K J 1/8W	ET	
R127			RD41DB2B274J	CYLND CHIP R 270K J 1/8W	ET	
R128			RD41DB2B684J	CYLND CHIP R 680K J 1/8W	ET	
R129			RD41DB2B154J	CYLND CHIP R 150K J 1/8W	ET	
R130,131			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R132			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
VR1	2D	*	R10-3026-05	POTENTIOMETER(POWER/VOLUME)		
VR2			R12-2036-05	TRIMMING POT.(DK LEVEL)	E1	
VR3			R12-3099-05	TRIMMING POT.(47K)SK LAMP	E1	
VR4			R12-3096-05	TRIMMING POT.(10K)AM STOP		
D1			DSM1A1	DIODE		
D3			RLZJ10	ZENER DIODE		
D4 -8			DLS1585	DIODE	E1	
D4 -8			RLS-73	DIODE	E1	
D4 ,5			DLS1585	DIODE	ET	
D4 ,5			RLS-73	DIODE	ET	
D7 ,8			DLS1585	DIODE	ET	
D7 ,8			RLS-73	DIODE	ET	
D12			RLZJ5.6	ZENER DIODE		
D13 -15			DLS1585	DIODE		
D13 -15			RLS-73	DIODE		
D16			1S1555	DIODE		
D17 -21			DLS1585	DIODE	E1	
D17 -21			RLS-73	DIODE	E1	
D17 ,18			DLS1585	DIODE	ET	
D17 ,18			RLS-73	DIODE	ET	
D20 ,21			DLS1585	DIODE	ET	
D20 ,21			RLS-73	DIODE	ET	
D22		*	RLZJ6.2	ZENER DIODE		
D23			DLS1585	DIODE		

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D23			RLS-73	DIODE		
D24			RLZJ5.6	ZENER DIODE		
D25			DLS1585	DIODE		
D25			RLS-73	DIODE		
D26			DSM1A1	DIODE		
D27			DLS1585	DIODE		
D27			RLS-73	DIODE		
D28			MTZ5.6J	ZENER DIODE		
D30			DSP-301N	SURGE ABSORBER		
D31			1S1555	DIODE		
D32 -37			DLS1585	DIODE	E1	
D32 -37			RLS-73	DIODE	E1	
D34 -38			DLS1585	DIODE	ET	
D34 -38			RLS-73	DIODE	ET	
D39			DLS1585	DIODE	E1	
D39			RLS-73	DIODE	E1	
D40			1S1555	DIODE		
D41			DLS1585	DIODE	E1	
D41			RLS-73	DIODE	E1	
D42 -46			1S1555	DIODE		
D47 -54			DLS1585	DIODE	E1	
D47 -54			RLS-73	DIODE	E1	
D47 -55			DLS1585	DIODE	ET	
D47 -55			RLS-73	DIODE	ET	
D59			1S1555	DIODE		
D60			1SS101	DIODE		
D65			DLS1585	DIODE		
D65			RLS-73	DIODE		
IC1			UPD1708G-637-00	IC(PLL FREQ SYNTHESISER CONT)		
IC2 ,3			TC4081BP	IC(AND X4)		
IC2 ,3			UPD4081BC	IC(AND X4)		
IC4			TA7263P	IC(AF POWER AMP/ 5.8W X2)		
IC5			UPC4570C	IC(OP AMP X2)		
Q1			2SB1015	TRANSISTOR		
Q2			2SC2412K	TRANSISTOR		
Q3			2SA1428	TRANSISTOR		
Q4			DTC124EK	DIGITAL TRANSISTOR		
Q5 ,6			2SA1036K	TRANSISTOR	E1	
Q6			2SA1036K	TRANSISTOR	ET	
Q7			DTC124EK	DIGITAL TRANSISTOR		
Q8			2SA1036K	TRANSISTOR		
Q9			DTC124EK	DIGITAL TRANSISTOR		
Q11			DTA144EK	DIGITAL TRANSISTOR		
Q12			DTC124EK	DIGITAL TRANSISTOR		
Q13			2SA1036K	TRANSISTOR		
Q14			DTC144EK	DIGITAL TRANSISTOR		
Q15			2SC3668	TRANSISTOR		
Q16			DTC144EK	DIGITAL TRANSISTOR		
Q17			2SA1037K	TRANSISTOR		
Q18			DTC144EK	DIGITAL TRANSISTOR		
Q21 -24			2SC2412K	TRANSISTOR		
Q25 -27			2SD1757K	TRANSISTOR	E1	
Q25 ,26			2SD1757K	TRANSISTOR	ET	
Q28			DTA144EK	DIGITAL TRANSISTOR		
Q29			2SC2412K	TRANSISTOR	E1	

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Q30			DTC124EK	DIGITAL TRANSISTOR	ET	
Q31			2SC2412K	TRANSISTOR		
Q35 ,36			DTC124EK	DIGITAL TRANSISTOR		
Q37			DTC144WK	DIGITAL TRANSISTOR		
Q38 ,39			DTC144EK	DIGITAL TRANSISTOR	E1	
Q41			2SC2412K(S)	TRANSISTOR		
Q42 -44			2SC2412K	TRANSISTOR		
Q45 -47			DTC144EK	DIGITAL TRANSISTOR		
Q48			2SA1037K	TRANSISTOR	ET	
Q49			DTC144EK	DIGITAL TRANSISTOR	ET	
264	2D		W02-0653-05	TUNER ASSY		
TUNER ASS'Y (W02-0653-05)						
D1 -4			1SS110	DIODE		
D1 -4			1SS53	DIODE		
D1 -4			1S1555	DIODE		
D5 -7			SVC321	DIODE		
D5 -7			1SV149	DIODE		
FET1			2SK163	FET		
FET2			2SK184	FET		
TR1 -5			2SC2620	TRANSISTOR		
TR1 -5			2SC2714	TRANSISTOR		
TR1 -5			2SC2814	TRANSISTOR		
TR6			2SC2669	TRANSISTOR		
FM FRONTEND ASS'Y (W02-0669-05)						
D1 -3			1SV103	DIODE		
D4			1S1555	DIODE		
FET1			3SK114	FET		
IC1			HA12438	IC		
FM FRONTEND ASS'Y (W02-0708-05)						
--			3SK101	FET		
TR1			2SC2620	TRANSISTOR		
TR1			2SC2714	TRANSISTOR		
TR2		*	2SC2175	TRANSISTOR		
TR3		*	2SC2995	TRANSISTOR		
SCREW SET (N99-0099-05)						
-			N09-0335-05	TAPPING SCREW (Ø5X6)		
-			N09-0366-05	HEX. BOLT (M5X20)		
-			N10-1050-46	HEX. NUT (M5)		
-			N14-0117-05	FLANGE NUT (M5)		
LIQUID CRYSTAL ASS'Y (B38-0072-05)						
FL1	2D	*	B38-0077-08	LIQUID CRYSTAL		
PL1	2C	*	B30-1170-08	LAMP		
PL2	2C	*	B30-1171-08	LAMP		
PL4	2C	*	B30-1171-08	LAMP		
PL6	2C	*	B30-1171-08	LAMP		
PL7 ,8	2D	*	B30-1169-08	LAMP		
--		*	F15-0273-08	SHADE (PL2,4,6)		
--		*	F15-0274-08	SHADE (PL1)		
--		*	F15-0275-08	SHADE (PL7,8)		
VR1	2C	*	R13-3041-08	POTENTIOMETER(20KB) BAL		
VR2	2C	*	R13-4037-08	POTENTIOMETER(50KAX2)TONE		

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				CASSETTE MECHANISM ASS'Y (D40-0319-25)		
2	2A		A10-0770-08	CHASSIS (PM BRACKET)		
3	1A		A53-0674-08	CASSETTE HOLDER		
6	3B		D03-0241-08	REEL DISK ASSY		
7	3B		D01-0073-08	FLYWHEEL ASSY (F)		
9	3A		D03-0229-08	MG PLATE ASSY		
10	2B		D10-1319-08	SWITCH PLATE ASSY		
11	1B		D10-1320-08	MAIN PLATE (M)		
12	2B		D10-1321-08	LEVER (TS ACTUATOR)		
13	2B		D10-1322-08	LOCK PLATE (FR)		
14	2B		D10-1323-08	SLIDER (FR)		
15	2B		D10-1324-08	LEVER (FR ACTUATOR)		
16	2A		D10-1651-08	ARM (PULL PLATE)		
17	2A		D10-1326-08	SLIDER (TG PUSH PLATE)		
18	3B		D10-1327-08	HEAD PANEL ASSY(M)		
19	2B		D10-1328-08	ARM (PR ACTUATOR)		
20	3A		D10-1329-08	FG PLATE ASSY		
21	3A		D10-1330-08	RG PLATE ASSY		
22	3B		D10-1331-08	ARM (ED PLATE)F		
23	3A		D10-1332-08	ARM (ED PLATE)R		
24	3B		D10-1333-08	TG PLATE (F) ASSY		
25	3A		D10-1334-08	TG PLATE (R) ASSY		
26	3A		D10-1335-18	PLATE (ES)		
27	3A		D10-1336-08	ARM (TRIGGER)		
28	2A		D10-1337-08	LEVER (SWITCH ACTUATOR)		
29	2A		D10-1338-08	PUSH LEVER ASSY		
30	2A		D10-1339-08	CH PUSH PLATE ASSY		
31	2A		D10-1340-08	LEVER (LIFT UP)		
32	1B		D10-1652-08	FR BRACKET ASSY		
33	1B		D10-1654-08	LEVER (REW)		
34	1B		D10-1653-08	LEVER (FF)		
35	1B		D10-1344-08	PC PLATE		
36	1B		D10-1345-08	CASE LIFTER		
37	1A		D10-1346-08	PE PLATE ASSY		
38	1B		D10-1347-08	CD PLATE		
39	2A		D10-1348-08	LEVER (TIMING)		
40	2A		D10-1349-08	ARM (TG ACTUATOR)		
41	3A		D10-1350-08	ARM (STOP)		
45	3A		D13-0185-08	GEAR (F)		
46	3A,3B		D13-0186-08	GEAR (T)		
47	3A		D13-0187-18	GEAR (FT)		
48	3A		D13-0188-08	CLUTCH ASSY (FR)		
49	3A		D13-0189-18	GEAR (DEVICE)UPPER		
50	3A		D13-0190-18	GEAR (DEVICE)LOWER		
51	3A		D13-0191-08	GEAR (DT)		
52	3A		D13-0192-08	GEAR (TS ACTUATOR)		
53	3A		D13-0193-08	GEAR (TURNOVER)		
54	2A		D13-0194-08	REEL ASSY(TAKE-UP REEL ASSY)		
55	2B		D13-0331-18	GEAR (MAIN)		
56	2B		D13-0332-08	GEAR (DG)		
59	2B		D14-0114-08	PINCH ROLLER ASSY(F)		
60	2A		D14-0115-08	PINCH ROLLER ASSY(R)		
61	3B		D14-0116-08	IDLER (HEAD PANEL)		

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62	2B		D15-0244-08	PULLEY (CENTER)		
64	3B		D16-0109-18	BELT (MAIN)		
65	3A		D16-0112-08	SLIP SHEET		
68	2B		G01-1560-08	TENSION SPRING (FR LOCK)		
69	2B		G01-1561-08	TORSION SPRING (CONTROL)		
70	2B		G01-1562-08	TORSION SPRING (TS ACTUATOR)		
71	3B		G01-1563-08	TENSION SPRING		
72	3A		G01-1564-08	TENSION SPRING (FR GEAR PLATE)		
73	3B		G01-1565-08	TENSION SPRING (TG PLATE)		
74	3A		G01-1566-08	TENSION SPRING (TS)		
75	2A,3A		G01-1567-08	COMPRESSION SPRING(ED)		
76	2A		G01-1568-08	TENSION SPRING (PS)		
77	2A		G01-1569-08	TENSION SPRING (PUSH LEVER)		
78	2A		G01-1570-08	TENSION SPRING (CH)		
79	2A		G01-1571-08	TENSION SPRING (LIFT UP LEVER)		
80	1B		G01-1572-08	TENSION SPRING (FR LEVER)		
81	1A		G01-1573-08	TORSION SPRING (TURNOVER)		
82	1B		G01-1574-08	TENSION SPRING (CD)		
83	2A		G01-1575-08	TENSION SPRING (TIMING LEVER)		
87	2B		G02-0174-08	FLAT SPRING (P/B HEAD)		
89	2B		G09-0047-08	SPRING (HS)		
90	2B		G09-0048-08	SPRING (FR ACTUATOR)		
91	2B		G09-0049-08	SPRING (PINCH ROLLER)		
92	3A		G09-0050-08	SPRING (ES PUSH LEVER)		
93	1A		G09-0051-08	SPRING (PE)		
94	1A		G13-0167-08	CUSHION		
97	1A	*	J32-0306-08	BOSS		
98	2B		J25-4472-08	PRINTED WIRING BOARD (A)		
99	1A		J25-4473-08	PRINTED WIRING BOARD (B)		
100	3A		J31-0242-08	COLLAR (TURNOVER GEAR)		
101	2A,3A		J31-0243-08	COLLAR (ED PIECE)		
102	3B		J90-0149-08	GUIDE (TAPE)		
103	1A		J90-0150-08	SLIDER (PACK)		
119	3A,2B		N19-0894-08	FLAT WASHER		
120	3B		N19-0895-08	FLAT WASHER(FLYWHEEL)		
121	2A,2B		N19-0896-08	FLAT WASHER(REEL,LOCK PLT 13)		
122	2A,2B		N19-0897-08	FLAT WASHER(PINCH ROLLER ASSY)		
123	3A		N19-0898-08	FLAT WASHER(UNDER GEAR 52)		
124	1B		N19-0899-08	FLAT WASHER(PC PLATE 35)		
125	2A,2B		N19-0942-08	FLAT WASHER		
126	2A,2B		N19-0901-08	FLAT WASHER		
127	2B		N19-1015-08	FLAT WASHER(PULLY)		
A	2B		N09-1402-08	SCREW COLLAR		
B	2A		N09-1403-08	SCREW(M1.7X3.5)		
C	2B		N09-1404-08	SCREW(M2X5) TAPE GUIDE 102		
D	2A		N09-1740-08	SCREW(M2X2.5)MOT,TIMING LEV 39		
E	2B		N09-1406-08	SCREW(M2X4) PLAYBACK HEAD 141		
F	2A,2B		N09-1407-08	SCREW(Ø2X3) PM BRKT 2,PCB 98		
G	3A		N09-1408-08	SCREW(M2X3.5)MG PLATE ASSY 9		
H	1B		N09-1409-08	SCREW(Ø2X4) LIFTER 36,BRKT 32		
J	1A		N09-1410-08	SCREW(Ø2X4) PCB 99		
P	1B		N09-1643-08	SEMUS SCREW(M2.6X4.5)		
T	1B		N29-0082-08	E TYPE RETAINING RING (Ø1.5)		

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PARTS LIST/PACKING

⁎ New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.

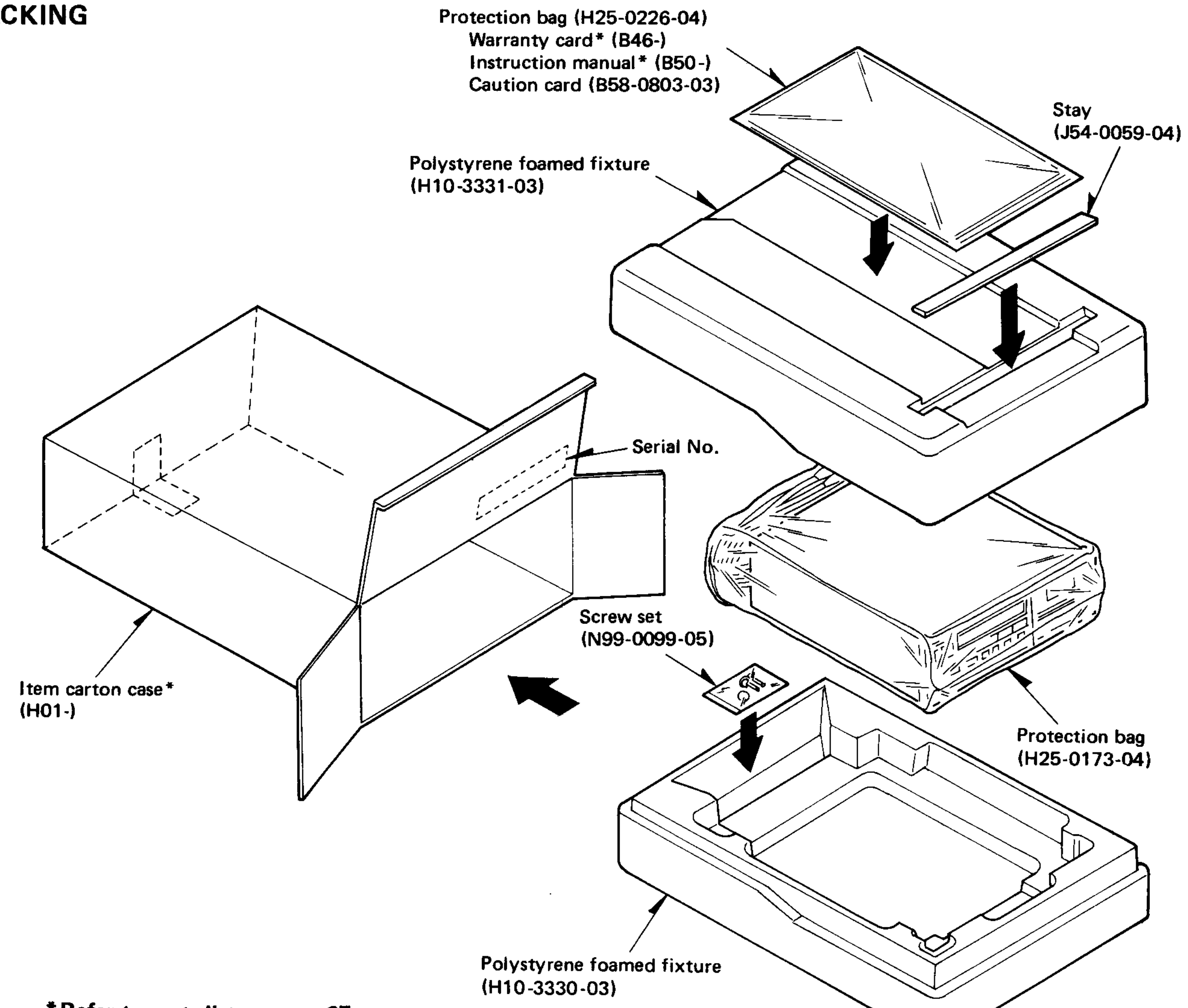
Telle ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti-nation 仕向	Re-marks 備考
U	3B		N24-3012-46	E TYPE RETAINING RING (Ø1.2)		
V	1A		N24-3015-46	E TYPE RETAINING RING (Ø1.5)		
W	2A,1B		N24-3020-46	E TYPE RETAINING RING (Ø2)		
Y	1A	⁎	N09-1525-08	SCREW(M2X5.5)		
137	2A		S46-1081-05	LEAF SWITCH (MUTING)		
141	2B		T31-0026-08	PLAYBACK HEAD		
142	2B		T42-0090-18	MOTOR ASSY		

E: Scandinavia & Europe H:Audio Club K: USA P: Canada W:Europe
A: Saudi Arabia T: England U: PX(Far East, Hawaii)
UE : AAFES(Europe) X: Australia M: Other Areas

⚠ indicates safety critical components.

PACKING



*Refer to parts list on page 27.

SPECIFICATIONS

Specification subject to change without notice.

FM Tuner Section

Frequency range	87.5 ~ 108.0 MHz
Usable sensitivity (DIN)	1.6 μV/75 Ω
Stereo sensitivity (S/N = 46 dB)	2.8 μV/75 Ω
Frequency response (±4.5 dB)	30 ~ 15,000 Hz
Signal to noise ratio (IEC-A)	68 dB
Selectivity (DIN)	65 dB
Stereo separation (1 kHz)	40 dB
19 kHz carrier leakage	50 dB

MW Tuner Section

MW frequency range	522 ~ 1,611 kHz
MW usable sensitivity	30 μV

LW Tuner Section

LW frequency range	153 ~ 281 kHz
LW usable sensitivity	60 μV

Cassette Deck Section

Tape speed	4.76 cm/s
Wow & flutter (WRMS)	0.12% (WRMS)
Wow & flutter (DIN)	0.2% (W-PEAK)
Fast winding time (C-60)	110 s
Frequency response (+4, −6 dB)	40 Hz ~ 14 kHz (120 μs) 40 Hz ~ 16 kHz (70 μs)
Stereo separation (1 kHz)	37 dB
Signal to noise ratio (IEC-A)	51 dB

Audio Section

Max. output power	6 W × 2 into 4 ohms, 1 kHz
Power output	5 W × 2 into 4 ohms, 1 kHz, at 10% THD 4 W × 2 into 4 ohms, 20 Hz ~ 20 kHz at 1% THD
Preout level/Impedance	300 mV/180 ohms

General

Operating volgtage	14.4 V (11 ~ 16 V allowable)
Current consumption	2.7 A at Rated Power
Body size	180 × 52 × 155 mm (7-1/16 × 2-1/16 × 6-1/8in.)
Weight	2.0 kg (4.4 lb)

Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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